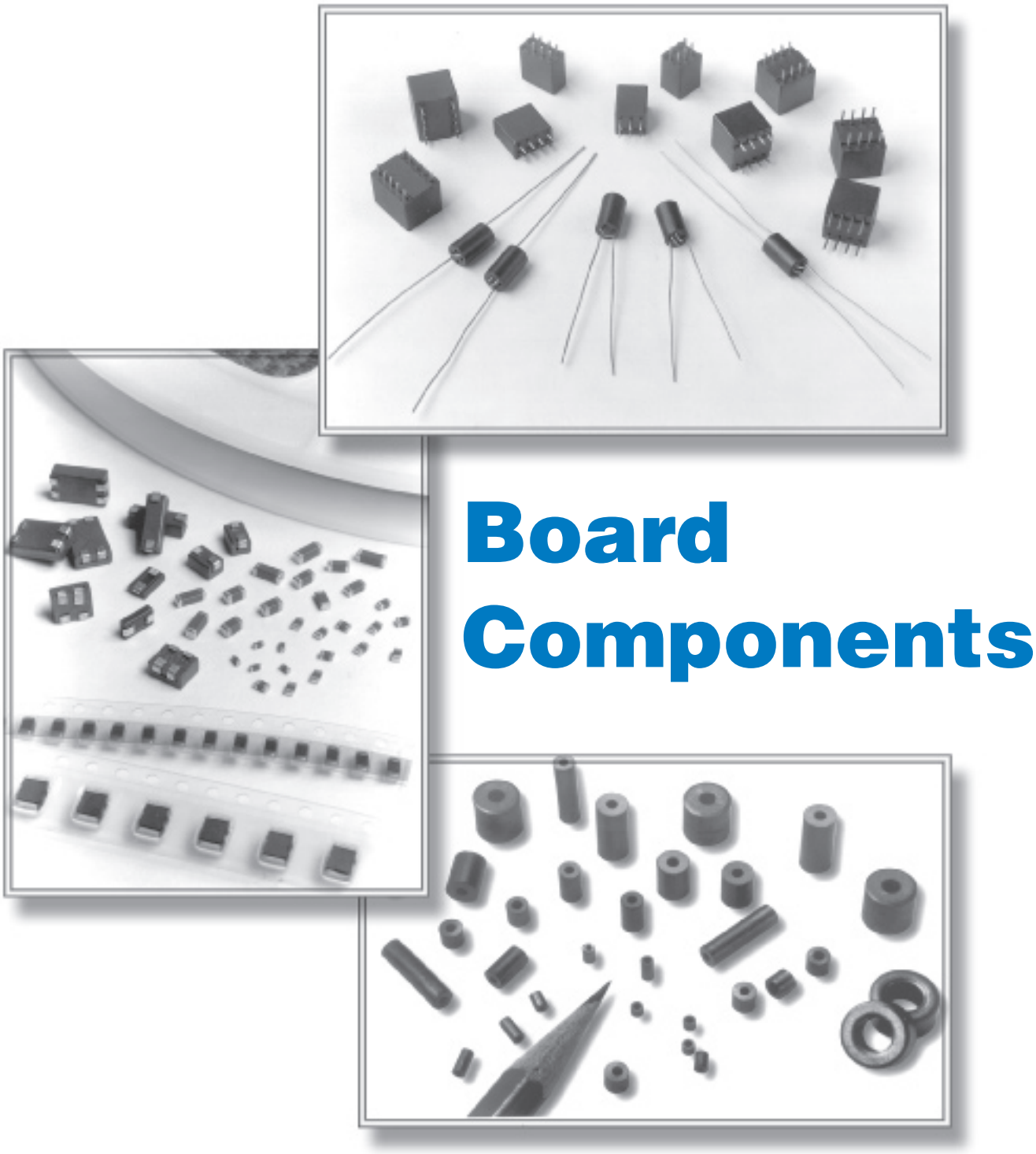

Board Components

Fair-Rite Products Corp.

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Engineering Kits

Expanded Cable & Suppressor Kit
Part Number 0199000005
This is our most popular engineering kit. As the name implies, this kit contains a broad sampling of suppression cores to reduce conducted EMI over wires and cables.

Chip Bead Kit
Part Number 0199000018
The chip bead kit has a number of different EIA size chip components with a range of impedance values and signal speeds. Also one of our chip arrays is included in this kit. Parts are RoHS compliant.

Shield Bead Kit
Part Number 0199000019
The shield bead kit has 28 different beads in three suppression materials, 73, 43, and 61.

Antenna/RFID Kit
Part Number 0199000024
The kit contains a range of rods in three low losses, high Q, materials, 78, 61 and 67, to cover frequencies from 10 kHz to 50 MHz.

Surface Mount Bead Kit
Part Number 0199000025
An assortment of surface mount beads for differential and common-mode applications in 73 material for < 50 MHz, 43/44 material for 25-300 MHz and 52/61 material for 250-1000 MHz frequencies. Parts are RoHS compliant.

Wound Bead Kit
Part Number 0199000027
The wound bead kit has twelve wound beads in two suppression materials, 44 and 61, wound in several winding configurations. Parts are RoHS compliant.

Bead-On-Lead Kit
Part Number 0199000028
This bead-on-lead kit has three parts each in three materials, 73, 43 and 61, for through hole applications. Parts are RoHS compliant.

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Engineering Kits

Rod Kit (52 Matl)
Part Number 0199000029
A new rod kit in the new 52 material. Samples of seven sizes intended for open circuit applications that require a ferrite material with high saturation and Curie temperature.

31 Snap-It Kit
Part Number 0199000030
This 31 material snap-it kit has a range parts for different cable diameters. Suggested operating frequency 1-300 MHz.

43 Snap-It Kit
Part Number 0199000031
Snap-it assemblies suitable for the 25-300 MHz frequency range. Can accommodate cable diameters from .250 to .590 inches.

46 Core and Snap-It Kit
Part Number 0199000032
This kit has a selection of cable cores and snap-its in our new economical 46 material. This material has similar performance as our 43/44 grade materials over the 25-300 MHz frequency range.

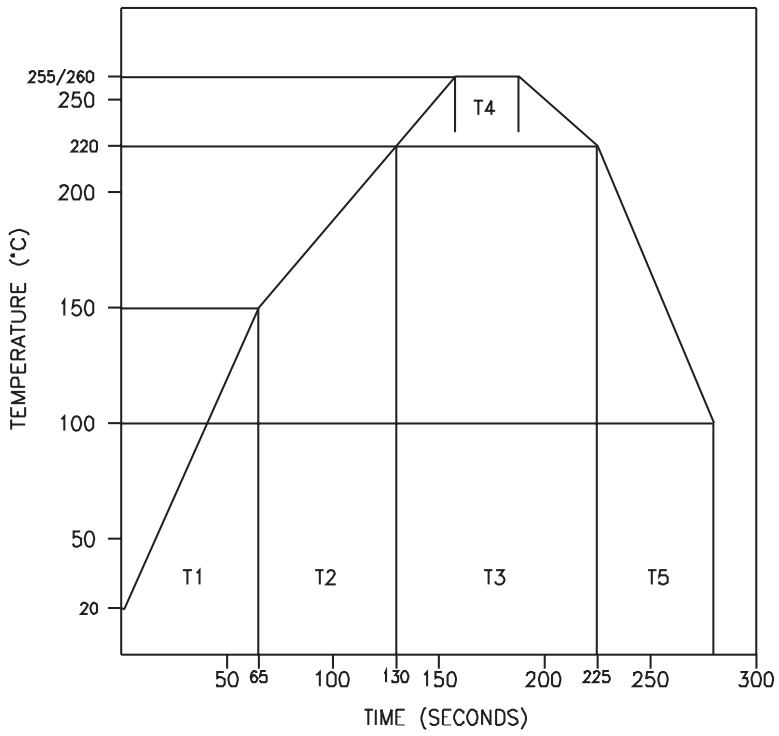
61 Snap-It Kit
Part Number 0199000033
Our recommendation for suppressing conducted EMI in 200-1000 MHz is the 61 material. This kit has a selection of 61 snap-its.

Chip Inductor Kit
Part Number 0199000035
The chip inductor kit has several EIA sizes in both ferrite and ceramic chip inductors. Parts are RoHS compliant.

Multi-Aperture Core Kit
Part Number 0199000036
Kit contains several sizes in four materials, 73, 43, 61 and 67. This allows experimentation from a few kHz into the 50-100 MHz range.

Solder Profile

REFLOW SOLDER PROFILE FOR LEAD–FREE COMPONENTS



T1 – Pre Heat	50 – 80	Seconds
T2 – Soak Time	60 – 90	Seconds
T3 – Time Above 220°C	60 – 150	Seconds
T4 – Reflow Solder Time	20 – 40	Seconds
T5 – Cool Down	40	Seconds Minimum

Times might be adjusted to accommodate component size

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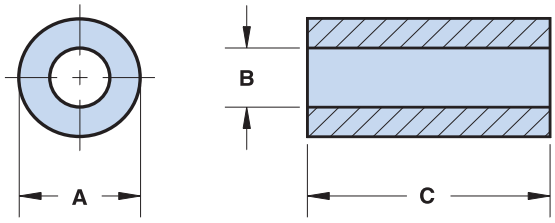
EMI Suppression Beads

Listed by frequency range and in ascending order of "B" dimension.

Fair-Rite offers a broad selection of ferrite EMI suppression beads with guaranteed minimum impedance specifications



- Beads with a "1" as the last digit of the part number are not burnished. Parts that are burnished to break the sharp edges have a "2" as the last digit.
- Upon request beads can be supplied with a Parylene coating. The last digit of the Parylene coated part is a "4". The minimum coating thickness beads is 0.005mm (.0002"). See page 124 for material characteristics of Parylene C.
- The column "H (Oe)" gives for each bead the calculated dc bias field in oersted for 1 turn and 1 ampere direct current. The actual dc H field in the application is this value of "H" times the actual NI (ampere-turn) product. For the effect of the dc bias on the impedance of the bead material, see the material graphs on pages 145-146, Figures 18-23.
- Suppression beads are controlled for impedances only. The impedances listed are typical values. Minimum impedance values are specified for the + marked frequencies. The minimum guaranteed impedance is the listed typical impedance less 20%.
- Single turn impedance tests for 73 and 43 material beads are performed on the 4193A Vector Impedance Analyzer. The 61 material beads are tested on the 4191A RF Impedance Analyzer. **Beads are tested with the shortest practical wire length.**
- Performance curves of all listed EMI suppression beads are compiled on the Fair-Rite Products CD-ROM.
- For larger suppression cores, refer to the section "Round Cable EMI Suppression Cores" found on pages 70-74.
- For any EMI suppression bead requirement not listed here, feel free to contact our customer service group for availability and pricing.
- Our "Shield Bead Kit" (part number 0199000019) contains a selection of these beads. See page 67.
- Explanation of Part Numbers: Digits 1&2 = product class, 3&4 = material grade and last digit 1= not burnished, 2 = burnished and 4 = Parylene coated.

Lower Frequencies < 50 MHz (73 material)

Dimensions (**Bold numbers are in millimeters**, light numbers are nominal in inches.)

Part Number**	A	B	C*	Wt (g)	H (Oe)	Typical Impedance(Ω)			
						1 MHz	5 MHz	10 MHz+	25 MHz+
2673901301	**0.95 - 0.05** .036	**0.45+0.1** .020	**3.8±0.2** .150	.01	6.0	5.3	13	16	24
2673004601	**1.1 - 0.1** .041	**0.65+0.1** .028	**4.1 - 0.3** .156	.01	4.7	3.3	8.2	12.5	19
2673004701	**1.45 - 0.15** .054	**0.7+0.1** .029	**2.3±0.15** .090	.01	4.0	3.1	7.6	12.5	17
2673030101	**1.22 - 0.13** .045	**0.8+0.1** .033	**5.3 - 0.45** .200	.01	4.1	3.5	8.6	11	17
2673025301	**1.25 - 0.1** .047	**0.8+0.1** .033	**3.8±0.2** .150	.01	4.0	2.9	7.1	10	15
2673010101	**1.95 - 0.25** .072	**0.8+0.1** .033	**10.0 - 0.4** .384	.08	3.3	20.5	48.5	55	77

***Bold part numbers designate preferred parts.*

**This dimension may be modified to suit specific applications.*

+ Test frequency

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EMI Suppression Beads

Listed by frequency range and in ascending order of "B" dimension.

Lower Frequencies < 50 MHz (73 material)

Dimensions (**Bold numbers are in millimeters**, light numbers are nominal in inches.)

Part Number**	A	B	C*	Wt (g)	H (Oe)	Typical Impedance(Ω)			
						1 MHz	5 MHz	10 MHz+	25 MHz+
2673004801	**2.1 - 0.15** .080	**0.85+0.1** .034	**2.9 - 0.45** .105	.03	3.1	5.5	13.5	18	28
2673028602	**2.13 - 0.1** .082	**0.85+0.1** .034	**5.6±0.15** .220	.07	2.7	13	30.5	38	50
2673012401	**1.55 - 0.1** .059	**0.95+0.15** .040	**4.2 - 0.25** .160	.02	3.3	3.5	8.6	11	19
2673002201	**1.95 - 0.2** .072	**1.05+0.1** .043	**10.4±0.25** .410	.09	2.9	14	33.5	38	55
2673000501	**2.0 - 0.15** .076	**1.05+0.1** .043	**1.65 - 0.25** .060	.01	2.8	2.1	6.3	7.5	12
2673000201	**2.0 - 0.15** .076	**1.05+0.1** .043	**3.8±0.25** .150	.04	2.8	5.2	12.5	18	27
2673000101	**3.5±0.2** .138	**1.3±0.1** .051	**3.25±0.25** .128	.13	2.0	8.1	19.5	25	35
2673000301	**3.5±0.2** .138	**1.3±0.1** .051	**6.0±0.25** .236	.24	2.0	15.5	37.5	57	63
2673000701	**3.5±0.2** .138	**1.3±0.1** .051	**12.7±0.35** .500	.51	2.0	34.5	81.5	120	125
2673022401	**5.1±0.25** .200	**1.45+0.25** .062	**6.35±0.25** .250	.56	1.5	20	47.5	54	58
2673021801	**5.1±0.25** .200	**1.45+0.25** .062	**11.1±0.35** .437	1.0	1.5	35.5	84	94	95
2673018001	**2.85±0.1** .112	**1.65+0.15** .068	**6.65±0.25** .262	.13	1.8	8.3	20	29	41
2673004901	**2.85±0.1** .112	**1.65+0.15** .068	**10.45±0.25** .410	.20	1.8	13.5	32.5	40	58
2673001601	**3.55±0.15** .140	**1.65+0.25** .070	**3.3 - 0.4** .122	.11	1.6	5.1	12.5	16	24
2673015301	**4.1 - 0.25** .156	**1.8±0.15** .071	**6.85±0.25** .270	.32	1.5	14	34	41	54
2673000801	**7.5±0.25** .296	**2.25+0.25** .094	**7.55±0.25** .297	1.4	1.0	23	55.5	48	45
2673200201	**5.2±0.15** .205	**2.65±0.25** .105	**20.6±0.75** .812	1.6	1.1	37	89	110	113
2673003201	**5.6 - 0.5** .210	**2.65±0.25** .105	**12.7±0.5** .500	1.0	1.1	23.5	56.5	60	60
2673002402	**9.65±0.25** .380	**5.0±0.2** .197	**5.05 - 0.45** .190	1.2	.59	7.9	19	19	15

***Bold part numbers designate preferred parts.*
**This dimension may be modified to suit specific applications.*

+ Test frequency

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EMI Suppression Beads

Listed by frequency range and in ascending order of "B" dimension.

Broadband Frequencies 25-300 MHz (43 material)

Dimensions (**Bold numbers are in millimeters**, light numbers are nominal in inches.)

Part Number**	A	B	C*	Wt (g)	H (Oe)	Typical Impedance (Ω)			
						10 MHz	25 MHz+	100 MHz+	250 MHz
2643004601	**1.1 - 0.1** .041	**0.65+0.1** .028	**4.1 - 0.3** .156	.01	4.7	9	12.5	31	39
2643004701	**1.45 - 0.15** .054	**0.7+0.1** .029	**2.3±0.15** .090	.01	4.0	8	12.5	26	39
2643004101	**3.5±0.2** .138	**0.75+0.1** .031	**4.45±0.35** .175	.11	2.6	32	48	70	89
2643706001	**3.5±0.25** .138	**0.8+0.1** .033	**2.7 - 0.45** .097	.06	2.5	18	26	45	59
2643020501	**1.65±0.025** .065	**0.85+0.1** .034	**3.68 - 0.25** .140	.02	3.4	12	17	31	47
2643004801	**2.1 - 0.15** .080	**0.85+0.1** .034	**2.9 - 0.45** .105	.03	3.1	12	18	31	47
2643002201	**1.95 - 0.2** .072	**1.05+0.1** .043	**10.4±0.25** .410	.08	2.9	26	34	58	77
2643000501	**2.0 - 0.15** .076	**1.05+0.1** .043	**1.65 - 0.25** .060	.01	2.8	6	9	22	33
2643000201	**2.0 - 0.15** .076	**1.05+0.1** .043	**3.8±0.25** .150	.03	2.8	12	16	31	46
2643000101	**3.5±0.2** .138	**1.3±0.1** .051	**3.25±0.25** .128	.10	2.0	17	26	40	56
2643000301	**3.5±0.2** .138	**1.3±0.1** .051	**6.0±0.25** .236	.18	2.0	29	46	60	83
2643000701	**3.5±0.2** .138	**1.3±0.1** .051	**12.7±0.35** .500	.38	2.0	60	89	125	148
2643200101	**5.1±0.25** .200	**1.45+0.25** .062	**3.4 - 0.45** .125	.19	1.5	19	30	41	61
2643022401	**5.1±0.25** .200	**1.45+0.25** .062	**6.35±0.25** .250	.38	1.5	36	55	82	97
2643021801	**5.1±0.25** .200	**1.45+0.25** .062	**11.1±0.35** .437	.67	1.5	62	96	131	151
2643023801	**5.1±0.25** .200	**1.45+0.25** .062	**22.85±0.75** .900	1.4	1.5	126	192	266	285
2643001501	**3.5±0.2** .138	**1.6±0.1** .063	**3.25±0.25** .128	.10	1.7	13	21	35	50
2643025601	**3.5±0.2** .138	**1.6±0.1** .063	**6.0±0.25** .236	.18	1.7	23	38	55	70
2643023201	**2.85±0.1** .112	**1.65+0.15** .068	**3.75±0.25** .147	.06	1.8	10	15	30	43
2643013801	**3.5±0.2** .138	**1.65+0.25** .070	**4.05±0.25** .160	.12	1.6	14	24	38	52
2643001601	**3.55±0.15** .140	**1.65+0.25** .070	**3.3 - 0.4** .122	.09	1.6	11	19	30	46
2643001301	**3.55±0.15** .140	**1.65+0.25** .070	**5.95±0.25** .234	.18	1.6	21	31	48	65
2643005701	**5.1±0.25** .200	**2.3±0.2** .090	**12.7±0.35** .500	.81	1.2	49	78	120	123
2643000801	**7.5±0.2** .296	**2.25+0.25** .094	**7.55±0.25** .297	1.0	1.0	42	63	92	109

***Bold part numbers designate preferred parts.*
**This dimension may be modified to suit specific applications.*

+ Test frequency

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EMI Suppression Beads

Listed by frequency range and in ascending order of "B" dimension.

Broadband Frequencies 25-300 MHz (43 material)

Dimensions (**Bold numbers are in millimeters**, light numbers are nominal in inches.)

Part Number**	A	B	C*	Wt (g)	H (Oe)	Typical Impedance(Ω)			
						10 MHz	25 MHz+	100 MHz+	250 MHz
2643300101	**7.6±0.25** .300	**2.25+0.25** .094	**15.1±0.75** .595	2.1	1.0	83	115	200	195
2643003201	**5.6-0.5** .210	**2.65±0.25** .105	**12.7±0.5** .500	.87	1.1	42	63	88	110
2643250402	**6.35±0.15** .250	**2.95+0.45** .125	**12.7±0.5** .500	1.2	.91	43	69	102	111
2643250302	**6.35±0.15** .250	**2.95+0.45** .125	**15.9±0.5** .625	1.5	.91	53	85	122	132
2643250202	**6.35±0.15** .250	**2.95+0.45** .125	**25.4±0.75** 1.000	2.5	.91	83	135	200	196
2643375102	**9.5±0.25** .375	**4.5+0.75** .192	**6.35±0.35** .250	1.4	.60	21	35	50	66
2643375002	**9.5±0.25** .375	**4.5+0.75** .192	**14.5±0.6** .570	3.1	.60	47	78	115	119
2643006302	**9.5±0.25** .375	**4.75+0.3** .193	**10.4±0.25** .410	2.2	.60	34	53	80	92
2643023402	**9.5±0.25** .375	**4.75+0.3** .193	**15.9±0.45** .625	3.4	.60	51	83	120	127
2643023002	**9.5±0.25** .375	**4.75+0.3** .193	**19.05±0.7** .750	4.1	.60	60	100	145	148
2643002402	**9.65±0.25** .380	**5.0±0.2** .197	**5.05 - 0.45** .190	1.1	.59	16	26	43	56
2643012702	**9.65±0.25** .380	**6.35±0.15** .250	**7.35±0.25** .290	1.3	.51	15	24	38	55

+ Test frequency

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EMI Suppression Beads

Listed by frequency range and in ascending order of "B" dimension.

Higher Frequencies 250-1000 MHz (61 material)

Dimensions (**Bold numbers are in millimeters**, light numbers are nominal in inches.)

Part Number**	A	B	C*	Wt (g)	H (Oe)	Typical Impedance(Ω)			
						100 MHz	250MHz+	500 MHz+	1000 MHz
2661030101	**1.22 - 0.13** .045	**0.8+0.1** .033	**5.3 - 0.45** .200	.01	4.1	17	32	53	93
2661002201	**1.95 - 0.2** .072	**1.05+0.1** .043	**10.4±0.25** .410	.08	2.9	53	76	97	122
2661000101	**3.5±0.2** .138	**1.3±0.1** .051	**3.25±0.25** .128	.10	2.0	30	45	62	95
2661000301	**3.5±0.2** .138	**1.3±0.1** .051	**6.0±0.25** .236	.18	2.0	54	82	103	120
2661000701	**3.5±0.2** .138	**1.3±0.1** .051	**12.7±0.35** .500	.38	2.0	120	158	178	185
2661022401	**5.1±0.25** .200	**1.45+0.25** .062	**6.35±0.25** .250	.38	1.5	58	82	103	138
2661021801	**5.1±0.25** .200	**1.45+0.25** .062	**11.1±0.35** .437	.67	1.5	102	141	167	185
2661023801	**5.1±0.25** .200	**1.45+0.25** .062	**22.85±0.75** .900	1.4	1.5	210	286	325	350
2661005701	**5.1±0.25** .200	**2.3±0.2** .090	**12.7±0.35** .500	.81	1.2	97	130	150	167
2661000801	**7.5±0.25** .296	**2.25+0.25** .094	**7.55±0.25** .297	1.0	1.0	75	103	120	143
2661250402	**6.35±0.15** .250	**2.95+0.45** .125	**12.7±0.5** .500	1.2	.91	85	115	135	155
2661250202	**6.35±0.15** .250	**2.95+0.45** .125	**25.4±0.75** 1.000	1.4	.91	165	230	275	330
2661375102	**9.5±0.25** .375	**4.5+0.75** .192	**6.35±0.35** .250	2.5	.60	42	63	83	117
2661002402	**9.65±0.25** .380	**5.0±0.2** .197	**5.05 - 0.45** .190	1.1	.59	35	54	75	112

+ Test frequency

***Bold part numbers designate preferred parts.*

**This dimension may be modified to suit specific applications.*

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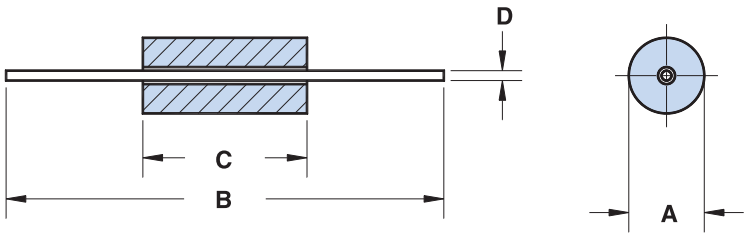
Beads-on-Leads

Listed by frequency range and in ascending order of Impedance.

Ferrite suppression beads are supplied assembled on tinned copper wire for automated circuit board assembly.

- Parts with a "2" as the last digit of the part number are supplied taped and reeled per IEC 60286-1 and EIA RS-296-F standards. Taped and reeled parts are supplied 4500 pieces on a 14" reel. Taping details: Component pitch 5mm. Inside tape spacing 52.5mm. Tape width 6mm.

- Beads-on-leads can be supplied bulk packed. The last digit of bulk packed parts is a "1"



- Wires are oxygen free high conductivity copper with a lead-free tin coating. The resistance of the wire is 3.5 mOhm for the 22 AWG and 2.2 mOhm for the 20 AWG wire. If required beads-on-leads can be supplied with a tin/lead coating.

- Beads-on-leads are controlled for impedances only. The impedances listed are typical values. Minimum impedance values are specified for the + marked frequencies.
  The minimum guaranteed impedance is the listed impedance less 20%.
  The impedances of the 73 & 43 beads-on-leads are measured on the 4193A Vector Impedance Analyzer. The 61 beads-on-leads are tested for impedance on the 4191A RF Impedance Analyzer.

- Performance curves for all beads-on-leads can be found on the Fair-Rite Products CD-ROM.

- For any bead-on-lead requirement not listed, please contact our customer service group for availability and pricing.

- Our "Bead-on-Lead Suppression Kit" (part number 0199000028) is available for prototype evaluation. See page 67.

- Explanation of Part Numbers: Digits 1&2 = product class, 3&4 = material grade and last digit 1 = bulk packed, 2 = taped and reeled.

Lower Frequencies < 50 MHz (73 material)

Dimensions (**Bold numbers are in millimeters**, light numbers are nominal in inches.)

Part Number*	A	B	C	D	Wt (g)	Typical Impedance (Ω)			
						1 MHz	5 MHz	10 MHz+	25 MHz+
2773001112	**3.5±0.25** .138	**62.0±1.5** 2.440	**4.45±0.25** .175	**0.65** 22 AWG	.4	12	34	48	61
2773015112	**3.5±0.25** .138	**62.0±1.5** 2.440	**5.25±0.25** .206	**0.65** 22 AWG	.4	17	43	55	68
2773005112	**3.5±0.25** .138	**62.0±1.5** 2.440	**6.0±0.25** .236	**0.65** 22 AWG	.4	22	51	63	78
2773003112	**3.5±0.25** .138	**62.0±1.5** 2.440	**6.7±0.25** .263	**0.65** 22 AWG	.5	26	59	70	86
2773004112	**3.5±0.25** .138	**62.0±1.5** 2.440	**7.6±0.3** .300	**0.65** 22 AWG	.5	30	69	80	100
2773002112	**3.5±0.25** .138	**62.0±1.5** 2.440	**8.9±0.3** .350	**0.65** 22 AWG	.6	36	84	94	115
2773007112	**3.5±0.25** .138	**62.0±1.5** 2.440	**9.5±0.3** .374	**0.65** 22 AWG	.6	38	90	110	115
2773008112	**3.5±0.25** .138	**62.0±1.5** 2.440	**11.4±0.4** .450	**0.65** 22 AWG	.7	43	112	125	145
2773009112	**3.5±0.25** .138	**62.0±1.5** 2.440	**13.8±0.5** .545	**0.65** 22 AWG	.7	46	138	151	170

**Bold part numbers designate preferred parts.*

+ Test frequency

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Beads-on-Leads

Listed by frequency range and in ascending order of Impedance.

Broadband Frequencies 25-300 MHz (43 material)

Dimensions (**Bold numbers are in millimeters**, light numbers are nominal in inches.)

Part Number*	A	B	C	D	Wt (g)	Typical Impedance(Ω)			
						10 MHz	25 MHz+	100 MHz+	250 MHz
2743001112	**3.5±0.25** .138	**62.0±1.5** 2.440	**4.45±0.25** .175	**0.65** 22 AWG	.4	31	49	68	65
2743015112	**3.5±0.25** .138	**62.0±1.5** 2.440	**5.25±0.25** .206	**0.65** 22 AWG	.4	36	54	82	78
2743005112	**3.5±0.25** .138	**62.0±1.5** 2.440	**6.0±0.25** .236	**0.65** 22 AWG	.4	40	60	91	90
2743003112	**3.5±0.25** .138	**62.0±1.5** 2.440	**6.7±0.25** .263	**0.65** 22 AWG	.5	44	65	100	101
2743004112	**3.5±0.25** .138	**62.0±1.5** 2.440	**7.6±0.3** .300	**0.65** 22 AWG	.5	50	75	110	115
2743002112	**3.5±0.25** .138	**62.0±1.5** 2.440	**8.9±0.3** .350	**0.65** 22 AWG	.6	57	88	133	134
2743007112	**3.5±0.25** .138	**62.0±1.5** 2.440	**9.5±0.3** .374	**0.65** 22 AWG	.6	61	96	150	143
2743008112	**3.5±0.25** .138	**62.0±1.5** 2.440	**11.4±0.4** .450	**0.65** 22 AWG	.7	72	116	180	168
2743009112	**3.5±0.25** .138	**62.0±1.5** 2.440	**13.8±0.5** .545	**0.65** 22 AWG	.7	86	143	220	196
2743012201	**9.8±0.3** .385	**62.0±1.5** 2.440	**11.4±0.4** .449	**0.8** 20 AWG	4.5	121	193	271	253
2743013211	**9.8±0.3** .385	**62.0±1.5** 2.440	**14.0±0.5** .550	**0.8** 20 AWG	5.5	147	235	331	281
2743014221	**9.8±0.3** .385	**62.0±1.5** 2.440	**16.5±0.5** .650	**0.8** 20 AWG	6.5	173	280	391	296

Higher Frequencies 250-1000 MHz (61 material)

Part Number*	A	B	C	D	Wt (g)	Typical Impedance(Ω)			
						100 MHz	250 MHz+	500 MHz+	1000 MHz
2761001112	**3.5±0.25** .138	**62.0±1.5** 2.440	**4.45±0.25** .175	**0.65** 22 AWG	.4	52	72	83	90
2761015112	**3.5±0.25** .138	**62.0±1.5** 2.440	**5.25±0.25** .206	**0.65** 22 AWG	.4	62	85	97	105
2761005112	**3.5±0.25** .138	**62.0±1.5** 2.440	**6.0±0.25** .236	**0.65** 22 AWG	.4	70	96	110	118
2761003112	**3.5±0.25** .138	**62.0±1.5** 2.440	**6.7±0.25** .263	**0.65** 22 AWG	.5	79	107	122	131
2761004112	**3.5±0.25** .138	**62.0±1.5** 2.440	**7.6±0.3** .300	**0.65** 22 AWG	.5	89	121	138	148
2761002112	**3.5±0.25** .138	**62.0±1.5** 2.440	**8.9±0.3** .350	**0.65** 22 AWG	.6	105	142	161	171
2761007112	**3.5±0.25** .138	**62.0±1.5** 2.440	**9.5±0.3** .374	**0.65** 22 AWG	.6	112	151	171	182
2761008112	**3.5±0.25** .138	**62.0±1.5** 2.440	**11.4±0.4** .450	**0.65** 22 AWG	.7	134	181	204	217
2761009112	**3.5±0.25** .138	**62.0±1.5** 2.440	**13.8±0.5** .545	**0.65** 22 AWG	.7	162	218	246	261

**Bold part numbers designate preferred parts.*

+ Test frequency

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PC Beads (Through Hole)

Multiple single turn or multi-turn printed circuit EMI suppression beads are available in two Fair-Rite materials. The broadband 44 material and in the high frequency 52 material grade. PC Beads are made in two standard component heights.

- Parts with a "1" as the last digit of the part number are supplied with a minimum wire length "F" dimension of 2.4 mm (.095"). A longer minimum wire length of 3.1 mm (.125") is also available, these parts have a "2" as the last digit.
- Wires are oxygen free high conductivity copper with a lead-free tin coating. If required PC Beads can be supplied with a tin/lead coating. Wires on top of the beads are covered with a layer of epoxy.
- PC Beads are controlled for impedance only. The impedances listed are typical values. Minimum impedance values are specified for the + marked frequencies.
  The minimum guaranteed impedance is the listed impedance less 20%.
  The PC Beads in 44 material are measured on the 4193A Vector Impedance Analyzer. The 52 PC Beads are tested for impedance on the 4191A RF Impedance Analyzer.
- Recommended operating and storage temperature for the PC Beads is -55 ^{0}C to +125 ^{0}C.
- Performance curves for all PC beads are on the Fair-Rite Products CD-ROM.
- For equivalent PC Beads suitable for surface mounting see pages 38-41.
- Explanation of Part Numbers: Digits 1&2 = product class, 3&4 = material grade and last digit 1 = standard wire length 2.4 mm (.095") minimum, 2 longer wire length 3.1 mm (.125") minimum.

Broadband Frequencies 10-300 MHz (44 material)

Dimensions (**Bold numbers are in millimeters**, light numbers are nominal in inches.)

Part Number	Fig.	A	B	C Max.	D	E	F Min.	G	Wt (g)	Typical Impedance (Ω)			
										10 MHz	25 MHz+	100 MHz+	250 MHz
2944776101	1	**8.0 - 0.35** .308	**7.6 - 0.5** .290	**11.8** .464	**2.54±0.1** .100	**2.54±0.1** .100	**2.4** .095	**0.65** 22 AWG	2.6	115	188	288	305
2944786101	1	**8.0 - 0.35** .308	**7.6 - 0.5** .290	**6.8** .267	**2.54±0.1** .100	**2.54±0.1** .100	**2.4** .095	**0.65** 22 AWG	1.3	66	95	150	155
2944778101	2	**11.2 - 0.5** .430	**5.75 - 0.5** .216	**11.8** .464	**2.54±0.1** .100	**2.54±0.1** .100	**2.4** .095	**0.65** 22 AWG	2.7	115	188	288	305
2944788101	2	**11.2 - 0.5** .430	**5.75 - 0.5** .216	**6.8** .267	**2.54±0.1** .100	**2.54±0.1** .100	**2.4** .095	**0.65** 22 AWG	1.4	66	95	150	155
2944778301	3	**11.2 - 0.5** .430	**11.2 - 0.5** .430	**11.8** .464	**2.54±0.1** .100	**7.6±0.2** .300	**2.4** .095	**0.65** 22 AWG	6.0	142	219	338	335
2944788301	3	**11.2 - 0.5** .430	**11.2 - 0.5** .430	**6.8** .267	**2.54±0.1** .100	**7.6±0.2** .300	**2.4** .095	**0.65** 22 AWG	3.0	76	110	175	180
2944770301	4	**13.45±0. 25** .530	**11.2 - 0.5** .430	**11.8** .464	**2.54±0.1** .100	**7.6±0.2** .300	**2.4** .095	**0.65** 22 AWG	7.4	142	219	338	335
2944780301	4	**13.45±0.25** .530	**11.2 - 0.5** .430	**6.8** .267	**2.54±0.1** .100	**7.6±0.2** .300	**2.4** .095	**0.65** 22 AWG	3.7	76	110	175	180

+ Test frequency

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PC Beads (Through Hole)

Higher Frequencies 250-1000 MHz (52 material)

Dimensions (**Bold numbers are in millimeters**, light numbers are nominal in inches.)

Part Number	Fig.	A	B	C Max.	D	E	F Min.	G	Wt (g)	Typical Impedance (Ω)			
										100 MHz	250 MHz+	500 MHz+	1000 MHz
2952776101	1	**8.0 - 0.35** .308	**7.6 - 0.5** .290	**11.8** .464	**2.54±0.1** .100	**2.54±0.1** .100	**2.4** .095	**0.65** 22 AWG	2.6	270	380	345	250
2952786101	1	**8.0 - 0.35** .308	**7.6 - 0.5** .290	**6.8** .267	**2.54±0.1** .100	**2.54±0.1** .100	**2.4** .095	**0.65** 22 AWG	1.3	125	180	180	170
2952778101	2	**11.2 - 0.5** .430	**5.75 - 0.5** .216	**11.8** .464	**2.54±0.1** .100	**2.54±0.1** .100	**2.4** .095	**0.65** 22 AWG	2.7	270	380	345	250
2952788101	2	**11.2 - 0.5** .430	**5.75 - 0.5** .216	**6.8** .267	**2.54±0.1** .100	**2.54±0.1** .100	**2.4** .095	**0.65** 22 AWG	1.4	125	180	180	170
2952778301	3	**11.2 - 0.5** .430	**11.2 - 0.5** .430	**11.8** .464	**2.54±0.1** .100	**7.6±0.2** .300	**2.4** .095	**0.65** 22 AWG	6.0	320	460	395	300
2952788301	3	**11.2 - 0.5** .430	**11.2 - 0.5** .430	**6.8** .267	**2.54±0.1** .100	**7.6±0.2** .300	**2.4** .095	**0.65** 22 AWG	3.0	150	220	220	210
2952770301	4	**13.45±0.25** .530	**11.2 - 0.5** .430	**11.8** .464	**2.54±0.1** .100	**7.6±0.2** .300	**2.4** .095	**0.65** 22 AWG	7.4	320	460	395	300
2952780301	4	**13.45±0.25** .530	**11.2 - 0.5** .430	**6.8** .267	**2.54±0.1** .100	**7.6±0.2** .300	**2.4** .095	**0.65** 22 AWG	3.7	150	220	220	210

+ Test frequency

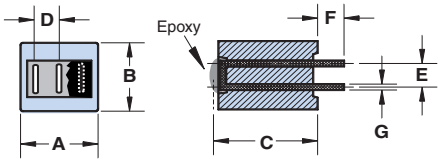

Figure 1

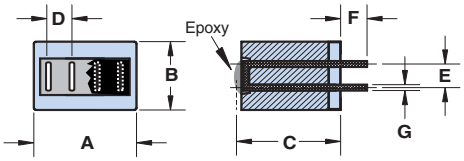

Figure 2

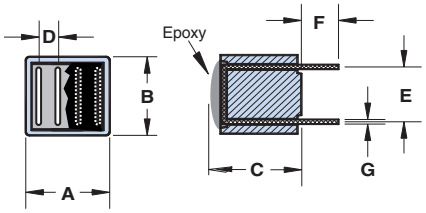

Figure 3

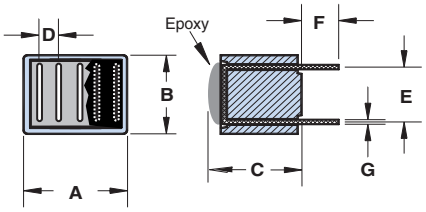

Figure 4

Typical Multi Turn Printed Circuit Board Layouts

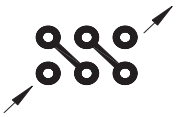

Figure 1A:
3 Turn winding for parts in Fig.1

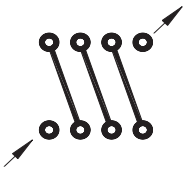

Figure 3A:
4 Turn turn winding for parts in Fig 3.

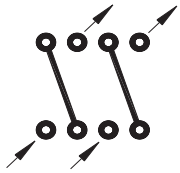

Figure 3B:
2 x 2 Turn winding for parts in Fig 3.

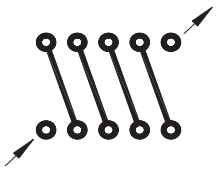

Figure 4A:
5 Turn winding for parts in Fig 4.

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Wound Beads

Six and eleven hole beads, in two NiZn materials, are available both as beads (product class 26) and wound with tinned copper wire in several winding configurations (product class 29).

- Parts with a “1” as the last digit of the part number are supplied bulk packed. Wound beads with part numbers 29--666631 and 29--666651 can be supplied radially taped and reeled per IEC 60286-1 and EIA 468-B standards. For these taped and reeled wound beads the last digit of the part number is a “4”. Taped and reeled wound beads are supplied 500 pieces on a 13” reel.
- Wire used for winding is oxygen free high conductivity copper with a lead-free tin plating. If required the wound beads can be supplied with a tin/lead coating.
- Beads are controlled for impedance limits only. The impedances listed are typical values. Minimum impedance values are specified for the + marked frequencies.
  The minimum guaranteed impedance is the listed impedance less 20%. The 44 material beads and wound beads are tested on the 4193A Vector Impedance Meter. The 61 material parts on the 4191A RF Impedance Analyzer.
- Recommended storage temperature and operating temperature is -55^{o}C to 125^{o}C
- Performance curves for all wound beads can be found on the Fair-Rite Products CD-ROM.
- For any wound bead requirement not listed in here, please contact our customer service group for availability and pricing.
- Explanation of Part Numbers: Digits 1&2 = product class, 3&4 = material grade and last digit 1 = bulk packed, 4 = taped and reeled.

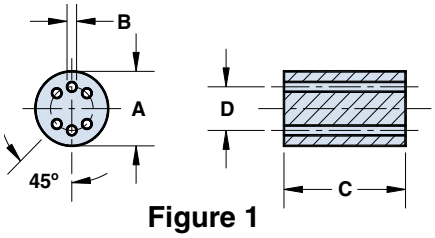

Figure 1

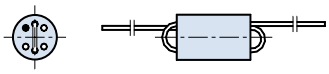
Figure 1-1

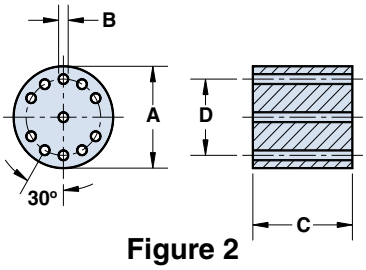

Figure 2

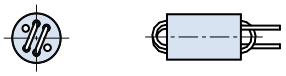
Figure 1-2

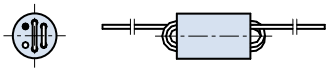
Figure 1-3

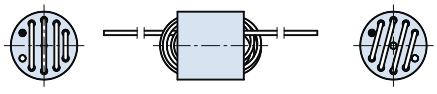
Figure 2-1

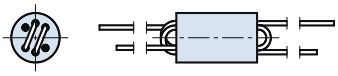
Figure 1-4

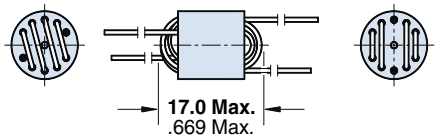

Figure 2-2

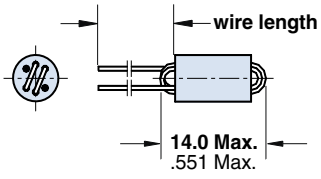

Figure 1-5

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Wound Beads

Dimensions (**Bold numbers are in millimeters**, light numbers are nominal in inches.)

Part Number	Fig.	A	B	C	D_{Ref}	Wt (g)	Typical Impedance (Ω)			
							10 MHz+	50 MHz+	100 MHz+	200 MHz+
2644666611①	1	**6.0±0.25** .236	**0.75+0.15** .032	**10.0±0.25** .394	**3.5** .138	1.2	213	400	470	380
2661666611①	1	**6.0±0.25** .236	**0.75+0.15** .032	**10.0±0.25** .394	**3.5** .138	1.2	–	280	380	510
2644777711②	2	**10.0±0.25** .394	**0.9+0.15** .038	**10.0±0.25** .394	**7.5** .295	3.3	375	905	500	400

① *Tested with 1½ turns.* ② *Tested with 2½ turns. (A ½ turn is defined as a single pass through a hole.)*

Broadband Frequencies 1-200 MHz (44 material)

Part Number	Fig.	Turns	Wire Size	Wire Length	Wt (g)	Typical Impedance (Ω)				
						1 MHz	10 MHz+	50 MHz+	100 MHz+	200 MHz
2944666661	1-1	1½	**0.53** 24 AWG	**38.0±3.0** 1.500	1.3	45	213	400	470	380
2944666651	1-2	2	**0.53** 24 AWG	**38.0±3.0** 1.500	1.3	58	300	650	600	415
2944666671	1-3	2½	**0.53** 24 AWG	**38.0±3.0** 1.500	1.4	87	400	850	725	410
2944666681	1-4	2 x 1½	**0.53** 24 AWG	③	1.4	45	213	400	470	380
2944666631	1-5	3	**0.53** 24 AWG	**38.0±3.0** 1.500	1.4	115	500	1000	690	400
2944777741	2-1	4½	**0.65** 22 AWG	**38.0±3.0** 1.500	3.8	150	815	1250	500	375
2944777721	2-2	2 x 2½	**0.65** 22 AWG	③	3.9	45	375	905	500	400

Higher Frequencies 50-500 MHz (61 material)

Part Number	Fig.	Turns	Wire Size	Wire Length	Wt (g)	Typical Impedance (Ω)				
						10 MHz	50 MHz+	100 MHz+	200 MHz+	400 MHz
2961666661	1-1	1½	**0.53** 24 AWG	**38.0±3.0** 1.500	1.3	75	280	380	510	600
2961666651	1-2	2	**0.53** 24 AWG	**38.0±3.0** 1.500	1.3	100	400	560	760	700
2961666671	1-3	2½	**0.53** 24 AWG	**38.0±3.0** 1.500	1.4	150	560	780	960	600
2961666681	1-4	2 x 1½	**0.53** 24 AWG	③	1.4	75	280	380	510	600
2961666631	1-5	3	**0.53** 24 AWG	**38.0±3.0** 1.500	1.4	175	700	1000	1100	625

③ *Wire length of one winding is **38.0±3.0** (1.500). Wire length of second winding is **28.0± 3.0** (1.125)* + *Test frequency*

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Multi-Aperture Cores

Multi-aperture cores are used in balun (balance-unbalance) transformers and find wide applications as broadband transformers in communications and CATV circuits. They are also employed in airbag designs to prevent accidental activation.

- All multi-aperture cores are supplied burnished.
- Multi-aperture cores in 73 and 43 materials are controlled for impedance only. The 61 NiZn material is controlled for both impedance and A_L value. The high frequency 67 material is controlled for A_L value. All listed impedance values are typical values. Minimum impedance values are specified for the + marked frequencies. The minimum guaranteed impedance is the listed typical impedance less 20%.
- Multi-aperture cores are measured for impedance on the 4193A Vector Impedance Analyzer. The cores are wound with a single turn through both holes, with the shortest practical wire length.
- The 61 and 67 material multi-hole beads are tested for A_L value. The test frequency is 10 kHz at < 10 gauss. The test winding is five turns wound through both holes.
- Performance curves for all multi-hole cores can be found on the Fair-Rite Products CD-ROM.
- For any multi-aperture core requirement not listed, please contact our customer service group for availability and pricing.
- Our "Multi-Aperture Core Kit" (part number 0199000036) is available for proto type evaluation. See page 68.
- Explanation of Part Numbers: Digits 1&2 = product class, 3&4 = material grade last digit 2 = burnished.

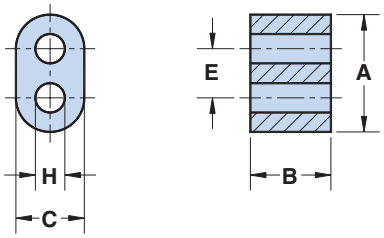

Figure 1

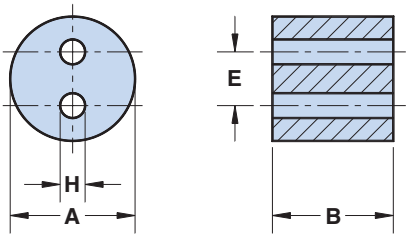

Figure 2

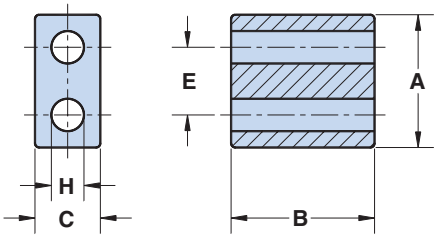

Figure 3

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Multi-Aperture Cores

Lower Frequencies < 50 MHz (73 material)

Dimensions (**Bold numbers are in millimeters,** light numbers are nominal in inches.)

Part Number	Fig.	A	B	C	E	H	Wt (g)	Typical Impedance (Ω)	
								10 MHz	25 MHz+
2873002302	1	3.45±0.25 .136	2.35±0.25 .093	2.0±0.15 .079	1.45±0.1 .057	0.75+0.25 .034	.1	35	44
2873002702	1	7.0±0.25 .276	3.1±0.25 .122	4.2 - 0.25 .160	2.9±0.1 .114	1.7+ 0.2 .071	.3	28	38
2873002402	1	7.0±0.25 .276	6.2±0.25 .244	4.2 - 0.25 .160	2.9±0.1 .114	1.7+ 0.2 .071	.5	80	75
2873001802	2	6.35±0.25 .250	6.15±0.25 .242	–	2.75±0.2 .108	1.1 + 0.3 .050	.8	115	106
2873001702	2	6.35±0.25 .250	12.0±0.35 .471	–	2.75±0.2 .108	1.1 + 0.3 .050	1.6	200	200
2873001502	1	13.3±0.6 .525	6.6±0.25 .260	7.5±0.35 .295	5.7±0.25 .225	3.8±0.25 .150	1.7	57	50
2873000302	1	13.3±0.6 .525	10.3±0.3 .407	7.5±0.35 .295	5.7±0.25 .225	3.8±0.25 .150	2.6	94	75
2873000102	1	13.3±0.6 .525	13.4±0.3 .528	7.5±0.35 .295	5.7±0.25 .225	3.8±0.25 .150	3.5	127	93
2873000202	1	13.3±0.6 .525	14.35±0.5 .565	7.5±0.35 .295	5.7±0.25 .225	3.8±0.25 .150	3.7	125	106
2873006802	1	13.3±0.6 .525	27.0±0.75 1.062	7.5±0.35 .295	5.7±0.25 .225	3.8±0.25 .150	7.0	195	180

Broadband Frequencies 20-300 MHz (43 material)

Part Number	Fig.	A	B	C	E	H	Wt (g)	Typical Impedance (Ω)	
								25 MHz	100 MHz+
2843002302	1	3.45±0.25 .136	2.35±0.25 .093	2.0±0.15 .079	1.45±0.1 .057	0.75+0.25 .034	.1	29	44
2843002702	1	7.0±0.25 .276	3.1±0.25 .122	4.2 - 0.25 .160	2.9±0.1 .114	1.7+ 0.2 .071	.3	37	50
2843002402	1	7.0±0.25 .276	6.2±0.25 .244	4.2 - 0.25 .160	2.9±0.1 .114	1.7+ 0.2 .071	.5	74	100
2843001802	2	6.35±0.25 .250	6.15±0.25 .242	–	2.75±0.2 .108	1.1 + 0.3 .050	.8	100	131
2843001702	2	6.35±0.25 .250	12.0±0.35 .471	–	2.75±0.2 .108	1.1 + 0.3 .050	1.6	188	256
2843001502	1	13.3±0.6 .525	6.6±0.25 .260	7.5±0.35 .295	5.7±0.25 .225	3.8±0.25 .150	1.7	59	88
2843000302	1	13.3±0.6 .525	10.3±0.3 .407	7.5±0.35 .295	5.7±0.25 .225	3.8±0.25 .150	2.6	104	130
2843000102	1	13.3±0.6 .525	13.4±0.3 .528	7.5±0.35 .295	5.7±0.25 .225	3.8±0.25 .150	3.5	122	175
2843000202	1	13.3±0.6 .525	14.35±0.5 .565	7.5±0.35 .295	5.7±0.25 .225	3.8±0.25 .150	3.7	123	180
2843006802	1	13.3±0.6 .525	27.0±0.75 1.062	7.5±0.35 .295	5.7±0.25 .225	3.8±0.25 .150	7.0	219	300
2843010402	3	19.45±0.4 .765	12.7±0.5 .500	9.5±0.25 .375	9.9±0.25 .390	4.75±0.2 .187	7.5	135	200
2843010302	3	19.45±0.4 .765	25.4±0.7 1.000	9.5±0.25 .375	9.9±0.25 .390	4.75±0.2 .187	18	295	400
2843009902	3	28.7±0.6 1.130	28.7±0.7 1.130	14.25±0.3 .560	14.0±0.3 .550	6.35±0.15 .250	48	380	500

+ Test frequency

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Multi-Aperture Cores

Higher Frequencies > 250 MHz (61 & 67 materials)

Dimensions (**Bold numbers are in millimeters,** light numbers are nominal in inches.)

Part Number	Fig.	A	B	C	E	H	Wt (g)	Typical Impedance (Ω)		Minimum A_L (nH)
								100 MHz+	250 MHz	
2861002302	1	**3.45±0.25** .136	**2.35±0.25** .093	**2.0±0.15** .079	**1.45±0.1** .057	**0.75+0.25** .034	.1	38	50	60
2867002302	1	**3.45±0.25** .136	**2.35±0.25** .093	**2.0±0.15** .079	**1.45±0.1** .057	**0.75+0.25** .034	.1	–	–	18
2861002702	1	**7.0±0.25** .276	**3.1±0.25** .122	**4.2 - 0.25** .160	**2.9±0.1** .114	**1.7+ 0.2** .071	.3	44	58	80
2867002702	1	**7.0±0.25** .276	**3.1±0.25** .122	**4.2 - 0.25** .160	**2.9±0.1** .114	**1.7+ 0.2** .071	.3	–	–	24
2861002402	1	**7.0±0.25** .276	**6.2±0.25** .244	**4.2 - 0.25** .160	**2.9±0.1** .114	**1.7+ 0.2** .071	.5	88	120	160
2867002402	1	**7.0±0.25** .276	**6.2±0.25** .244	**4.2 - 0.25** .160	**2.9±0.1** .114	**1.7+ 0.2** .071	.5	–	–	48
2861001802	2	**6.35±0.25** .250	**6.15±0.25** .242	–	**2.75±0.2** .108	**1.1 + 0.3** .050	.8	119	155	220
2867001802	2	**6.35±0.25** .250	**6.15±0.25** .242	–	**2.75±0.2** .108	**1.1 + 0.3** .050	.8	–	–	65
2861001702	2	**6.35±0.25** .250	**12.0±0.35** .471	–	**2.75±0.2** .108	**1.1 + 0.3** .050	1.6	230	320	440
2867001702	2	**6.35±0.25** .250	**12.0±0.35** .471	–	**2.75±0.2** .108	**1.1 + 0.3** .050	1.6	–	–	130
2861001502	1	**13.3±0.6** .525	**6.6±0.25** .260	**7.5±0.35** .295	**5.7±0.25** .225	**3.8±0.25** .150	1.7	69	90	145
2867001502	1	**13.3±0.6** .525	**6.6±0.25** .260	**7.5±0.35** .295	**5.7±0.25** .225	**3.8±0.25** .150	1.7	–	–	44
2861000302	1	**13.3±0.6** .525	**10.3±0.3** .407	**7.5±0.35** .295	**5.7±0.25** .225	**3.8±0.25** .150	2.6	106	145	230
2867000302	1	**13.3±0.6** .525	**10.3±0.3** .407	**7.5±0.35** .295	**5.7±0.25** .225	**3.8±0.25** .150	2.6	–	–	68
2861000102	1	**13.3±0.6** .525	**13.4±0.3** .528	**7.5±0.35** .295	**5.7±0.25** .225	**3.8±0.25** .150	3.5	138	175	300
2867000102	1	**13.3±0.6** .525	**13.4±0.3** .528	**7.5±0.35** .295	**5.7±0.25** .225	**3.8±0.25** .150	3.5	–	–	89
2861000202	1	**13.3±0.6** .525	**14.35±0.5** .565	**7.5±0.35** .295	**5.7±0.25** .225	**3.8±0.25** .150	3.7	150	210	320
2867000202	1	**13.3±0.6** .525	**14.35±0.5** .565	**7.5±0.35** .295	**5.7±0.25** .225	**3.8±0.25** .150	3.7	–	–	95
2861006802	1	**13.3±0.6** .525	**27.0±0.75** 1.062	**7.5±0.35** .295	**5.7±0.25** .225	**3.8±0.25** .150	7.0	280	400	600
2867006802	1	**13.3±0.6** .525	**27.0±0.75** 1.062	**7.5±0.35** .295	**5.7±0.25** .225	**3.8±0.25** .150	7.0	–	–	180
2861010002	3	**30.2±0.6** 1.190	**28.7±0.7** 1.130	**15.0±0.4** .590	**14.6±0.4** .575	**6.8±0.2** .268	46	600	800	800

+ Test frequency

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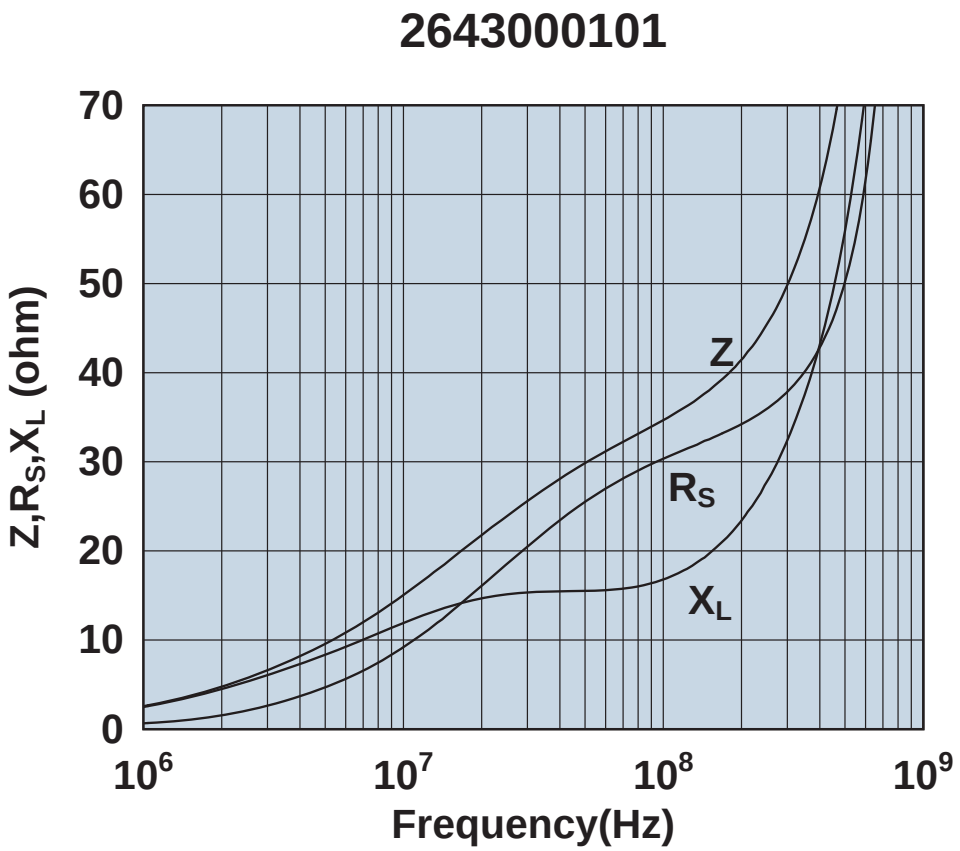
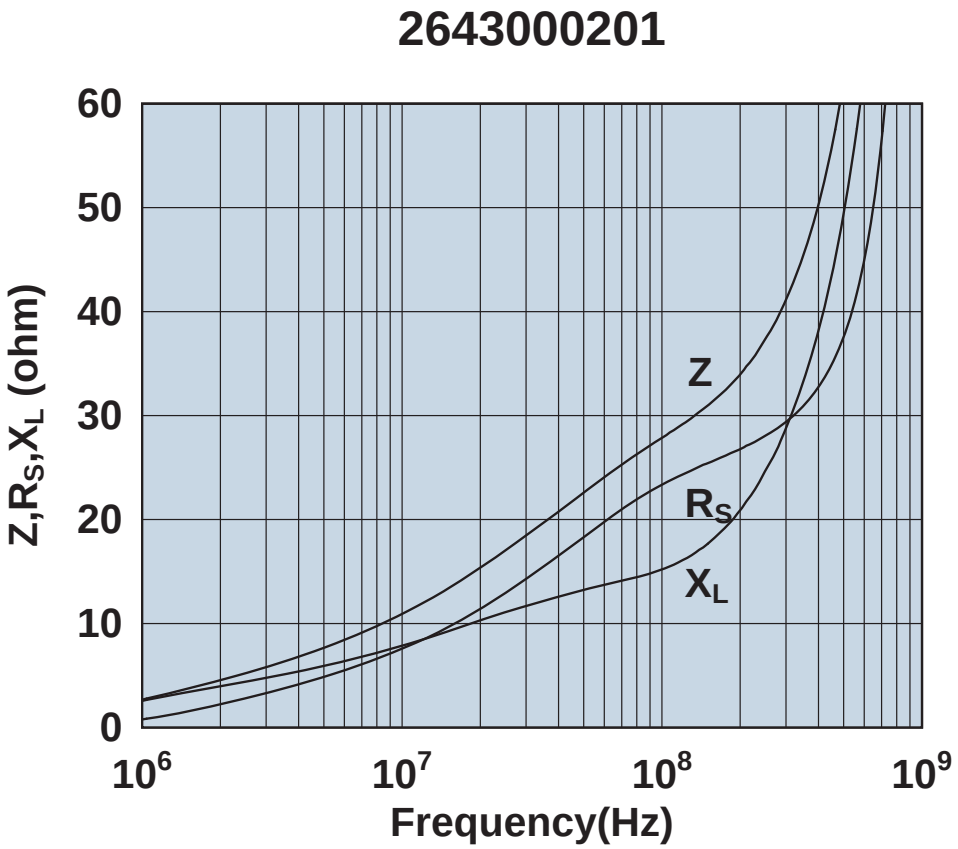
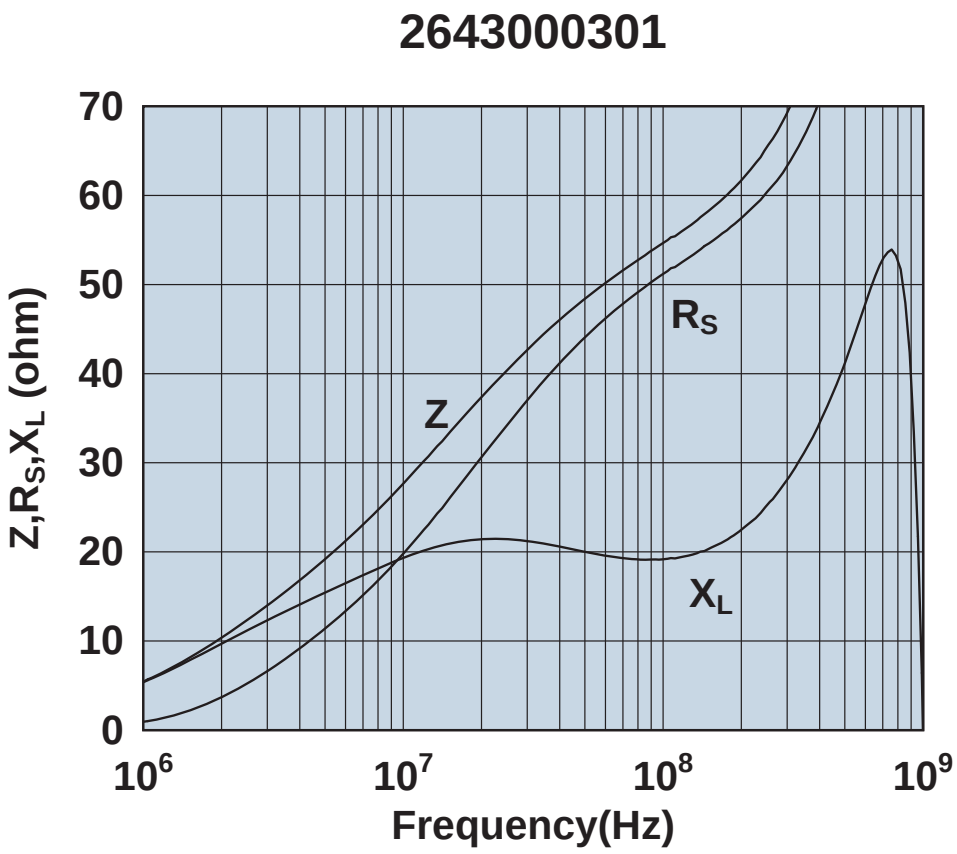


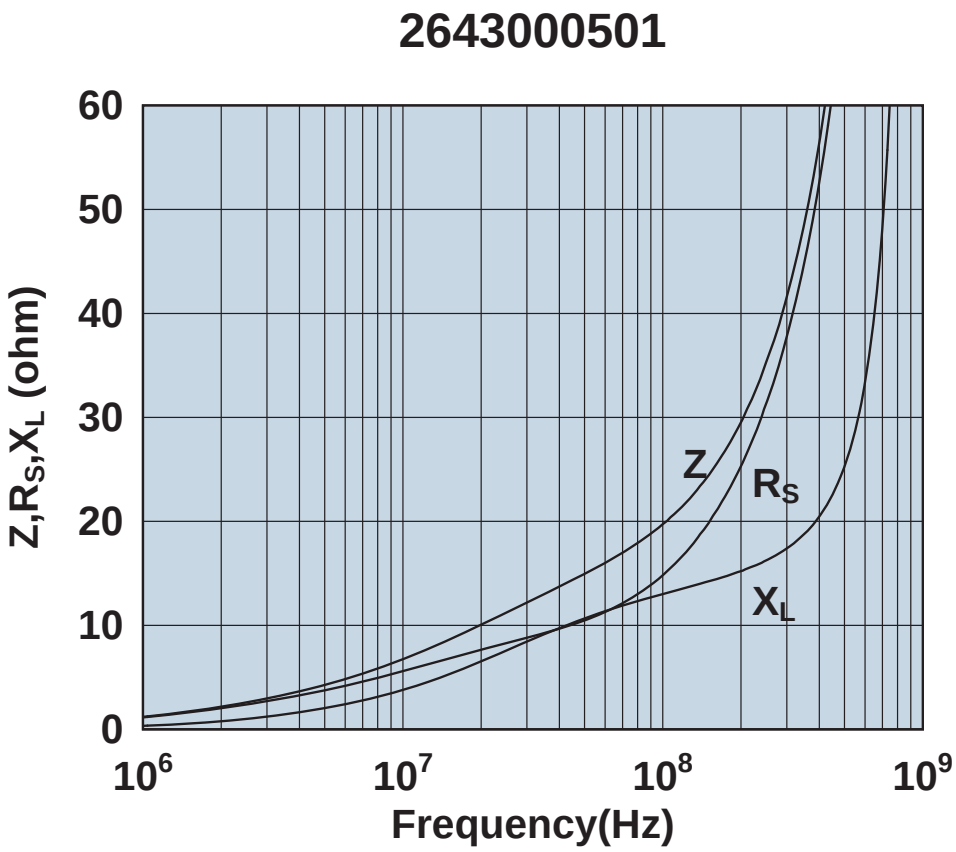
Impedance, reactance, and resistance vs. frequency.



Impedance, reactance, and resistance vs. frequency.



Impedance, reactance, and resistance vs. frequency.



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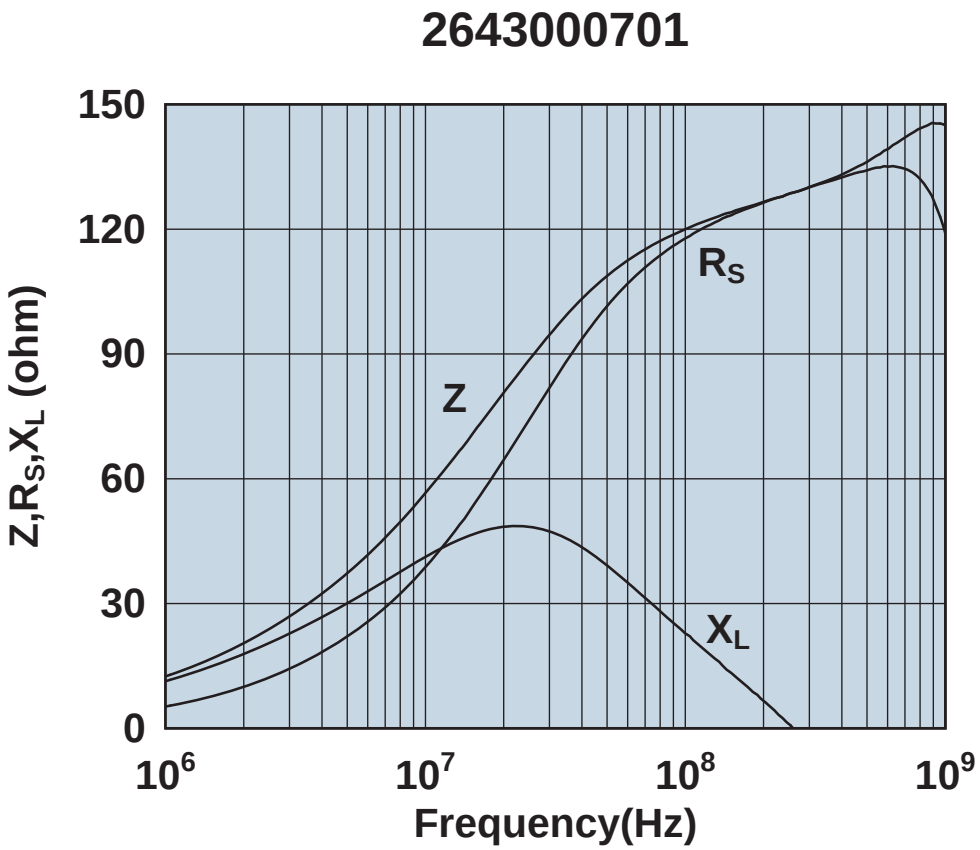
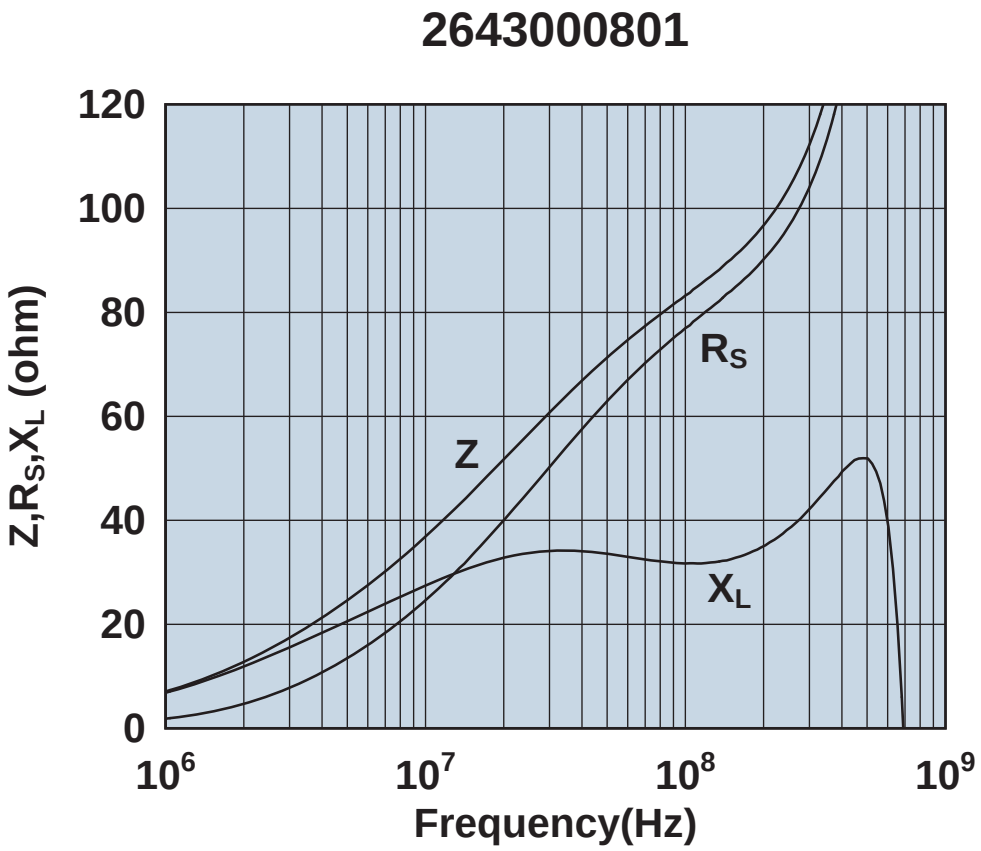


Impedance, reactance, and resistance vs. frequency.



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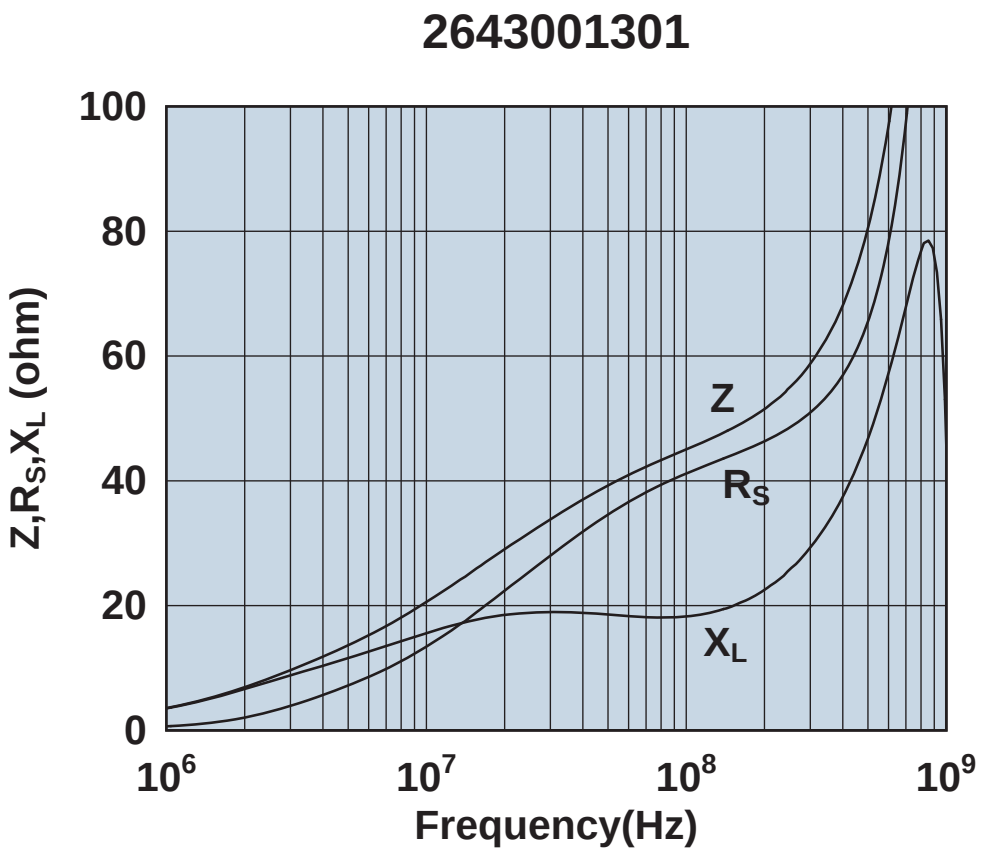

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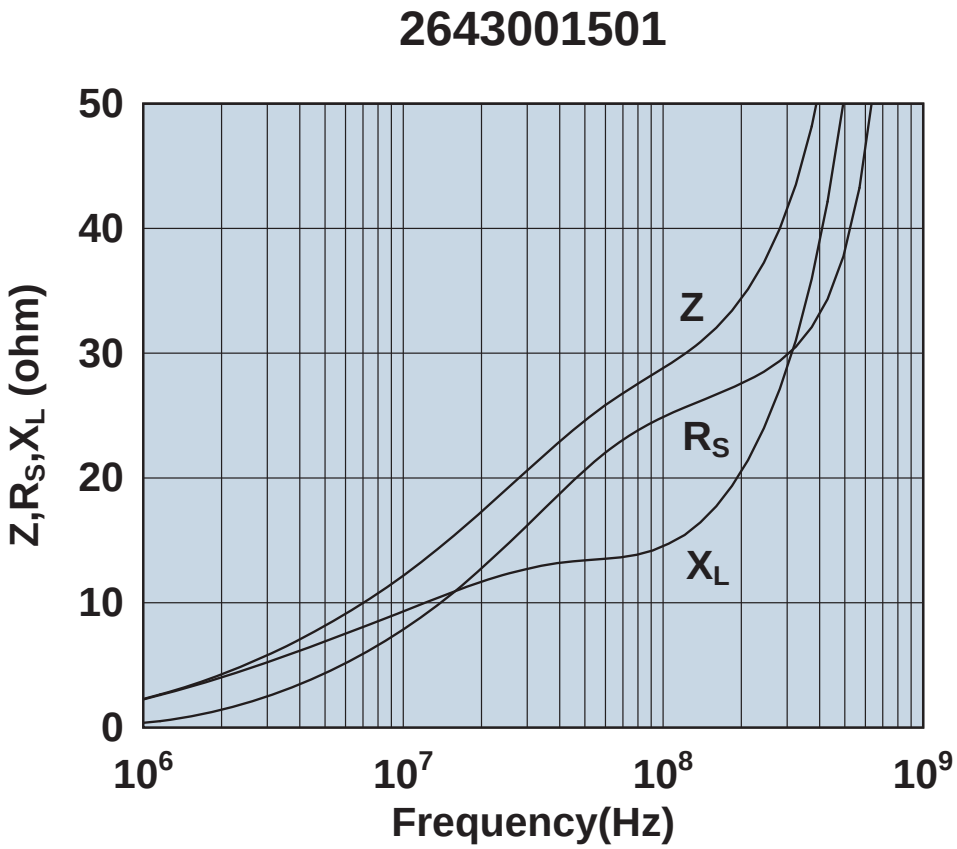

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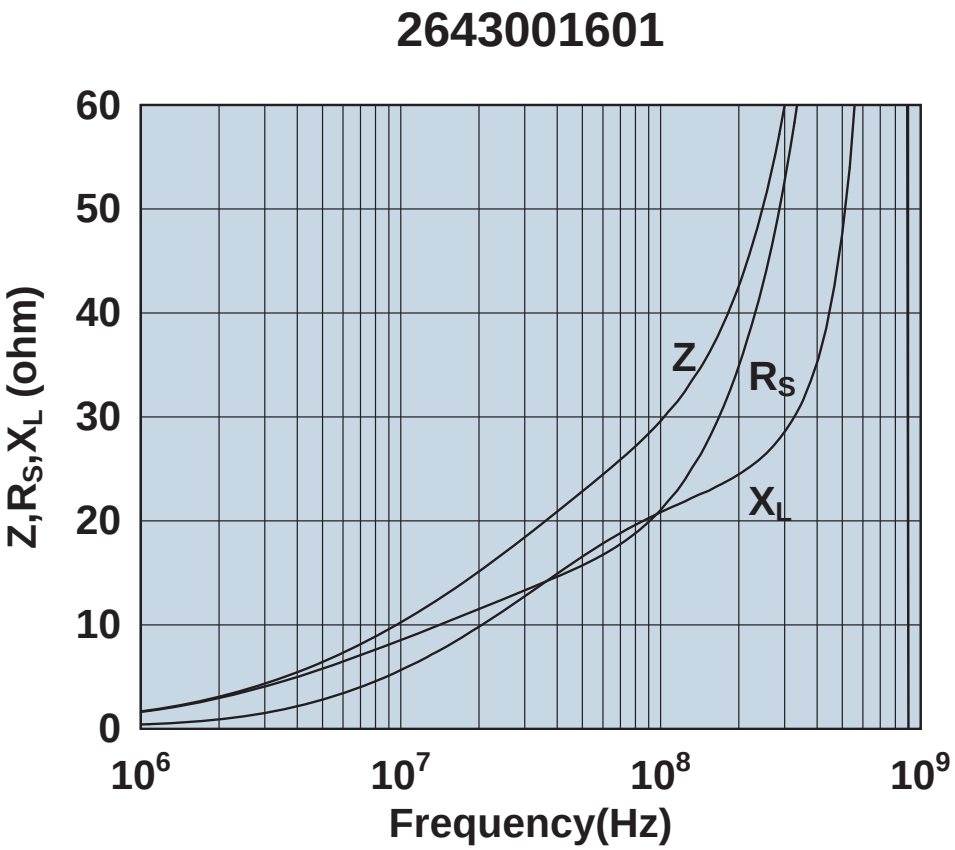

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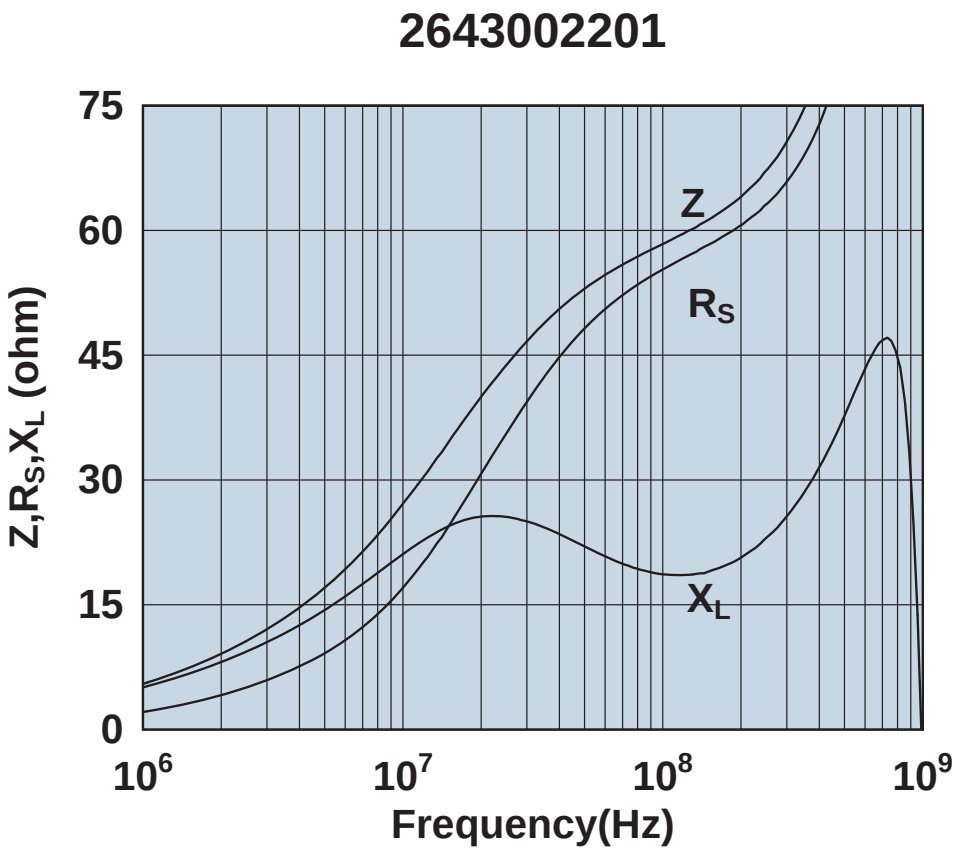

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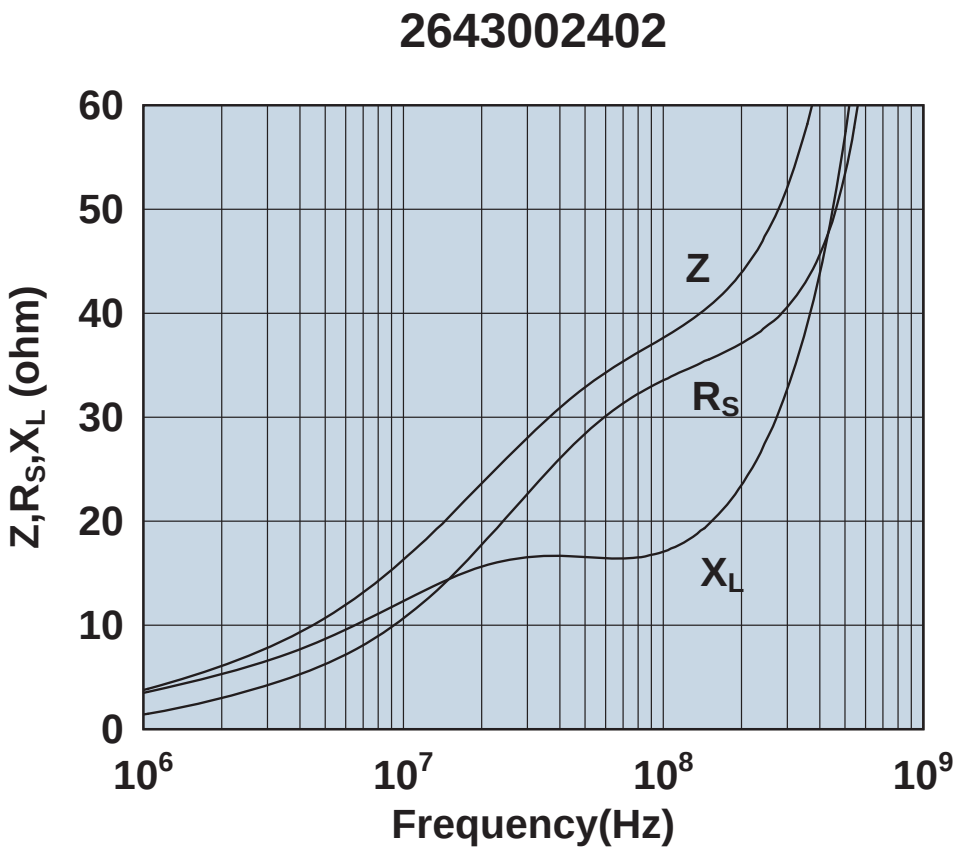

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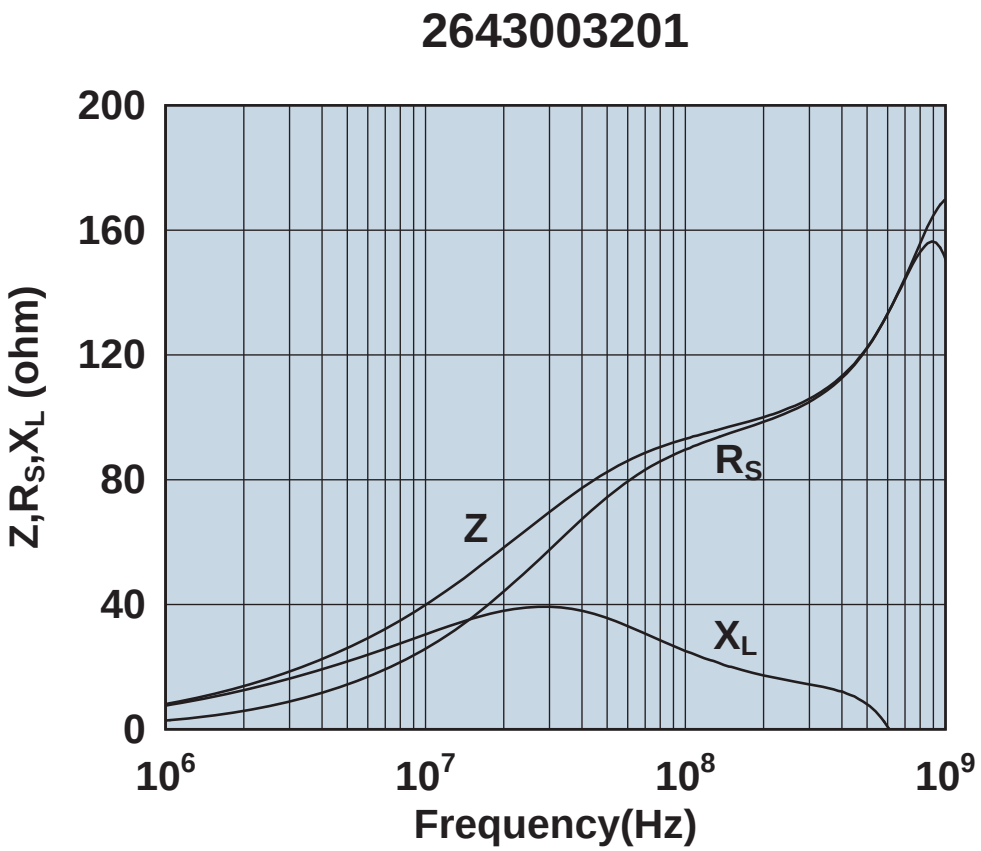

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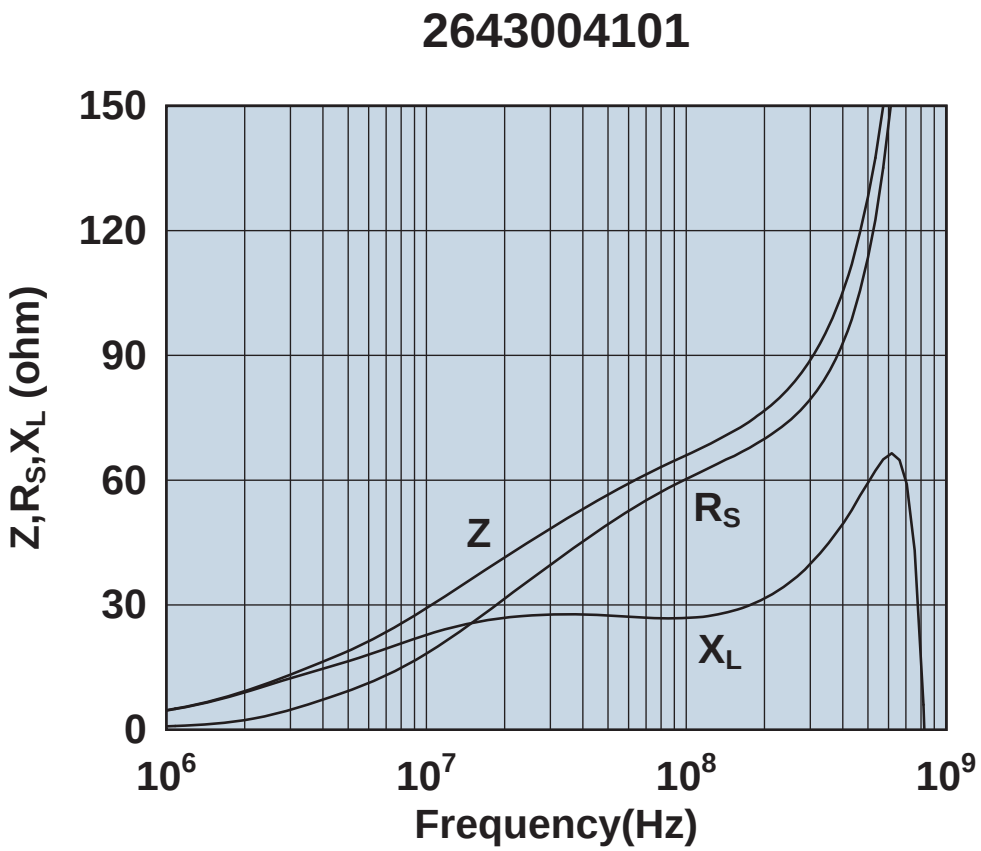

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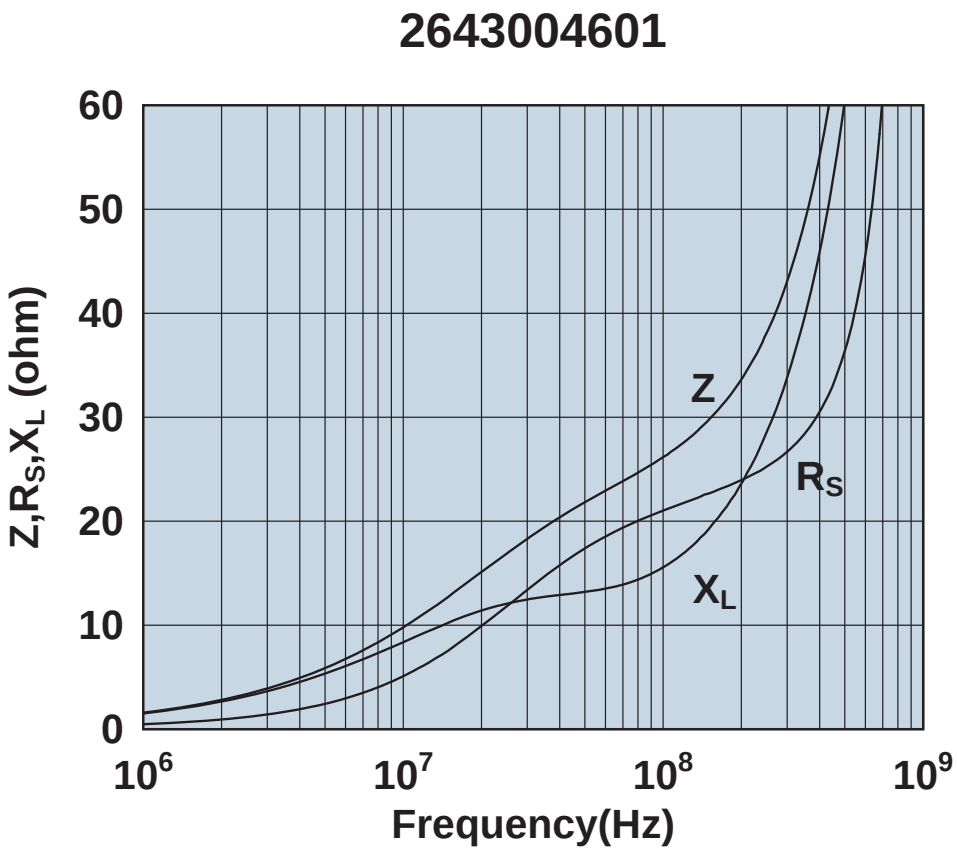

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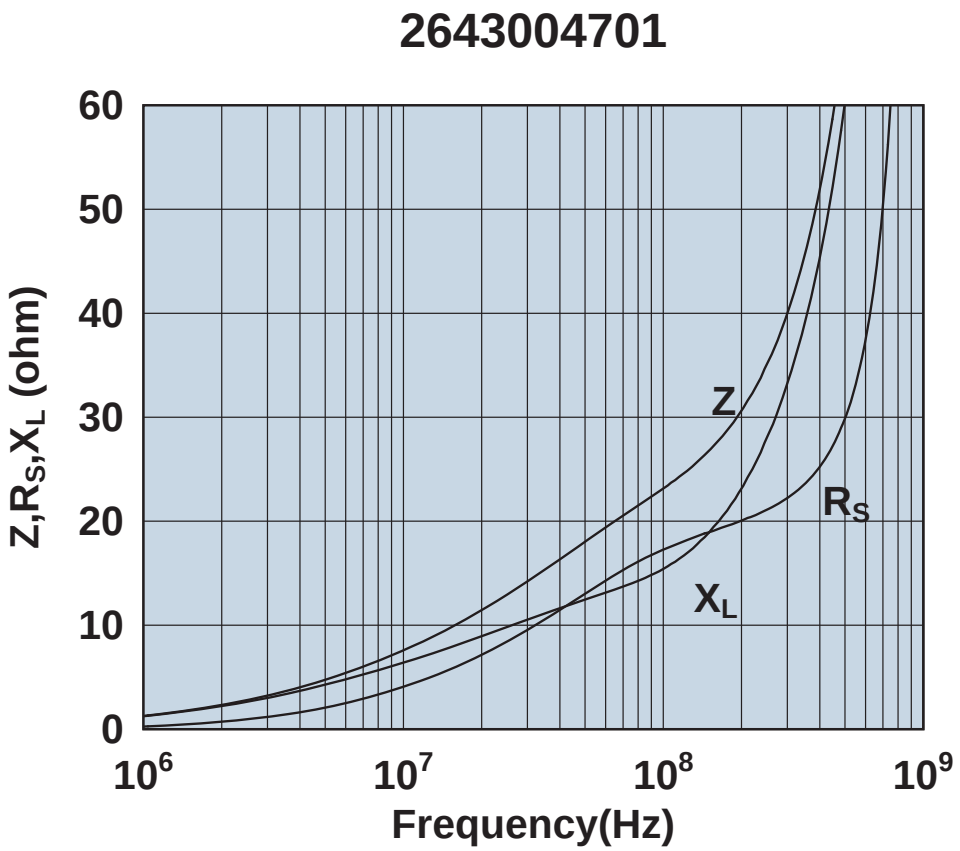
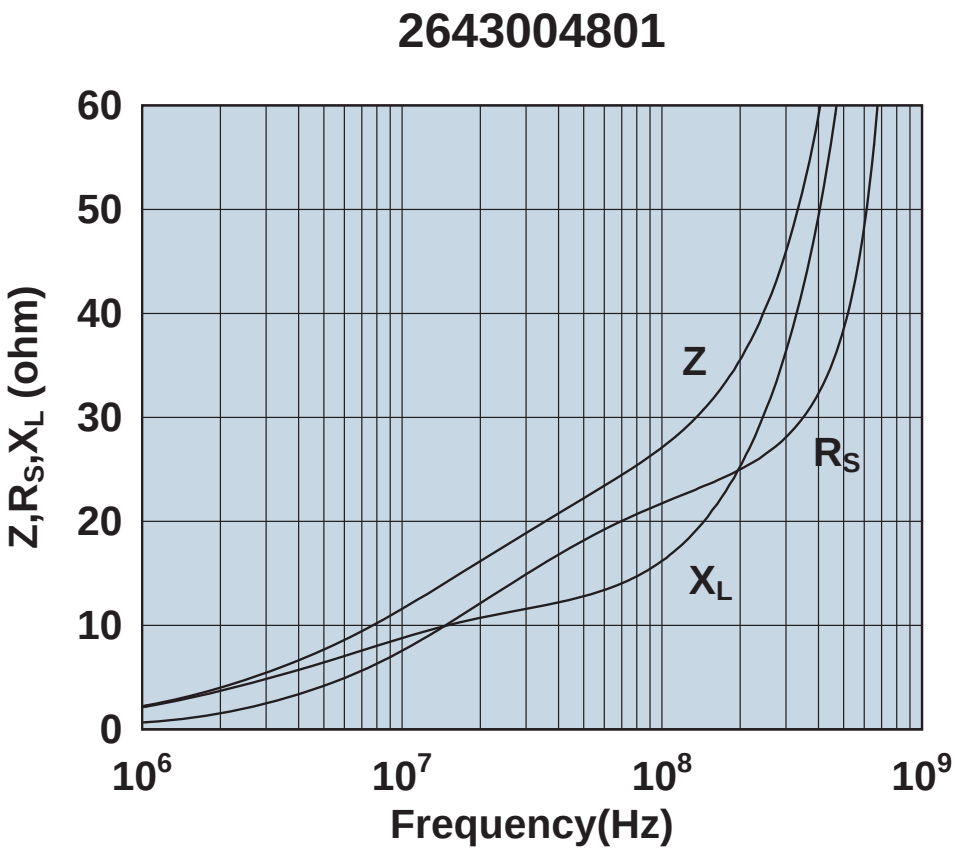


Impedance, reactance, and resistance vs. frequency.



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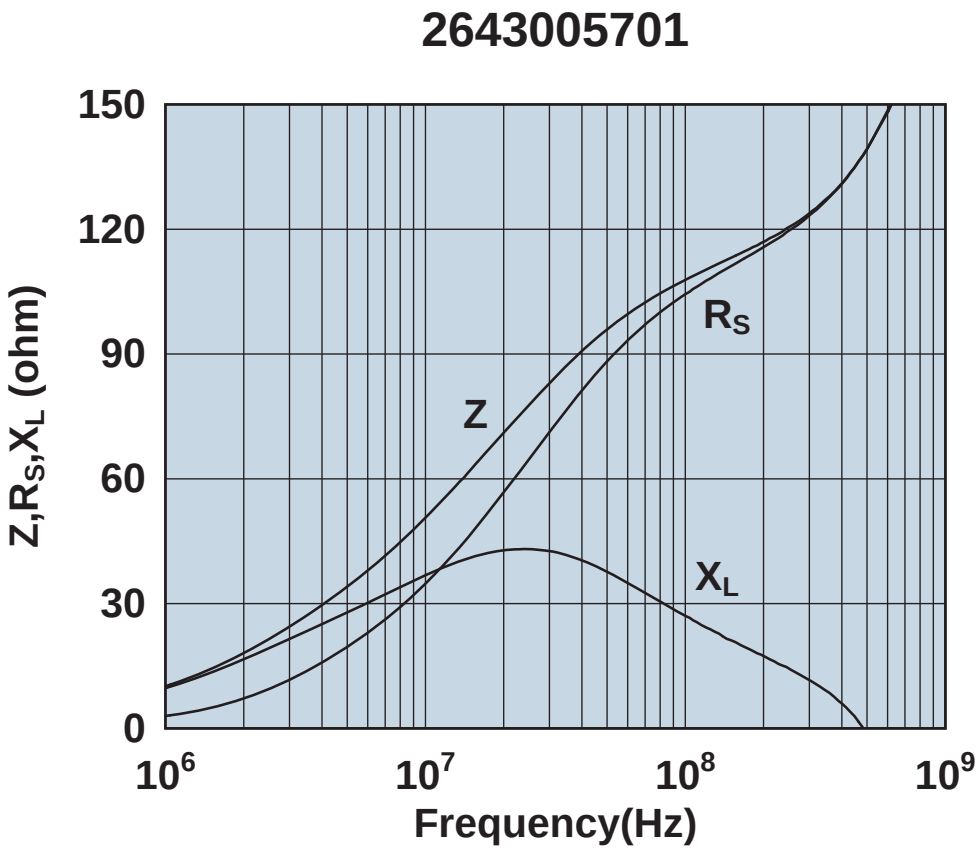
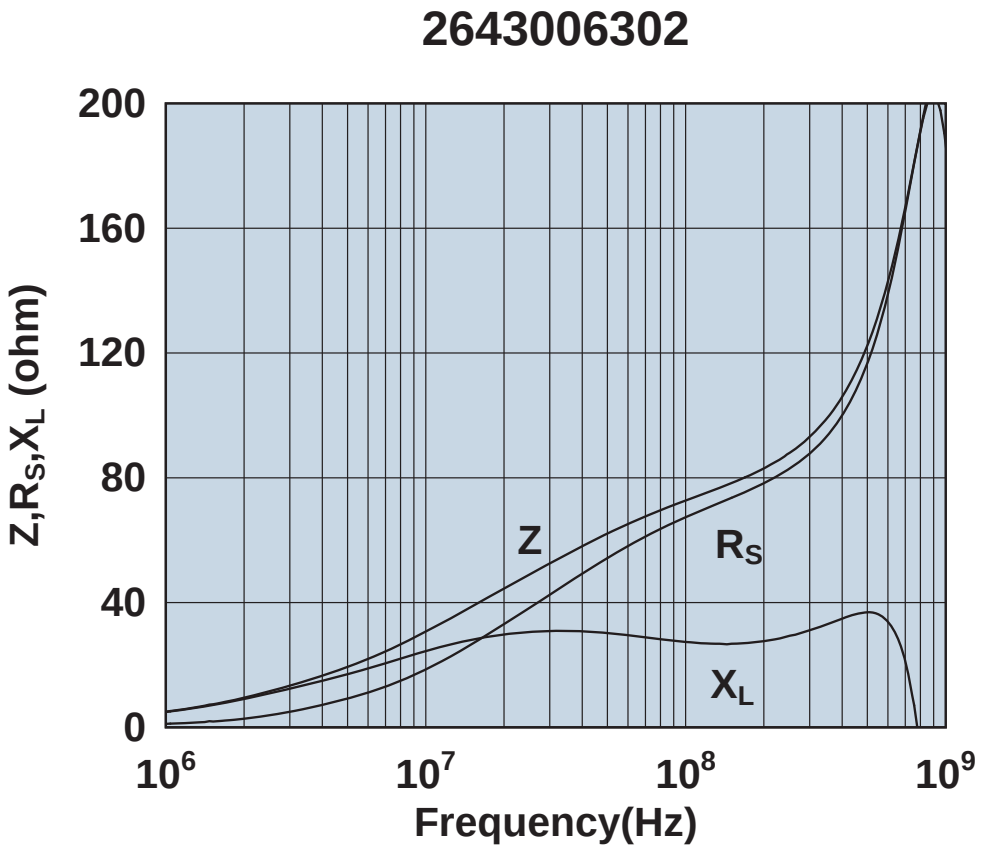
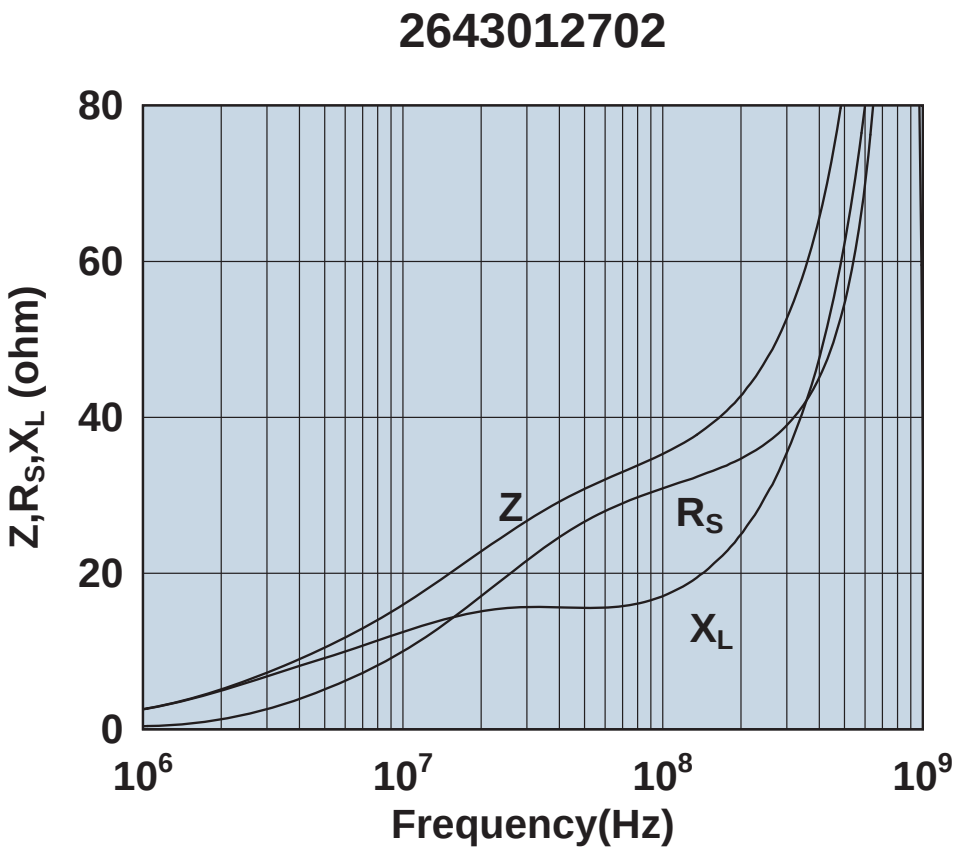


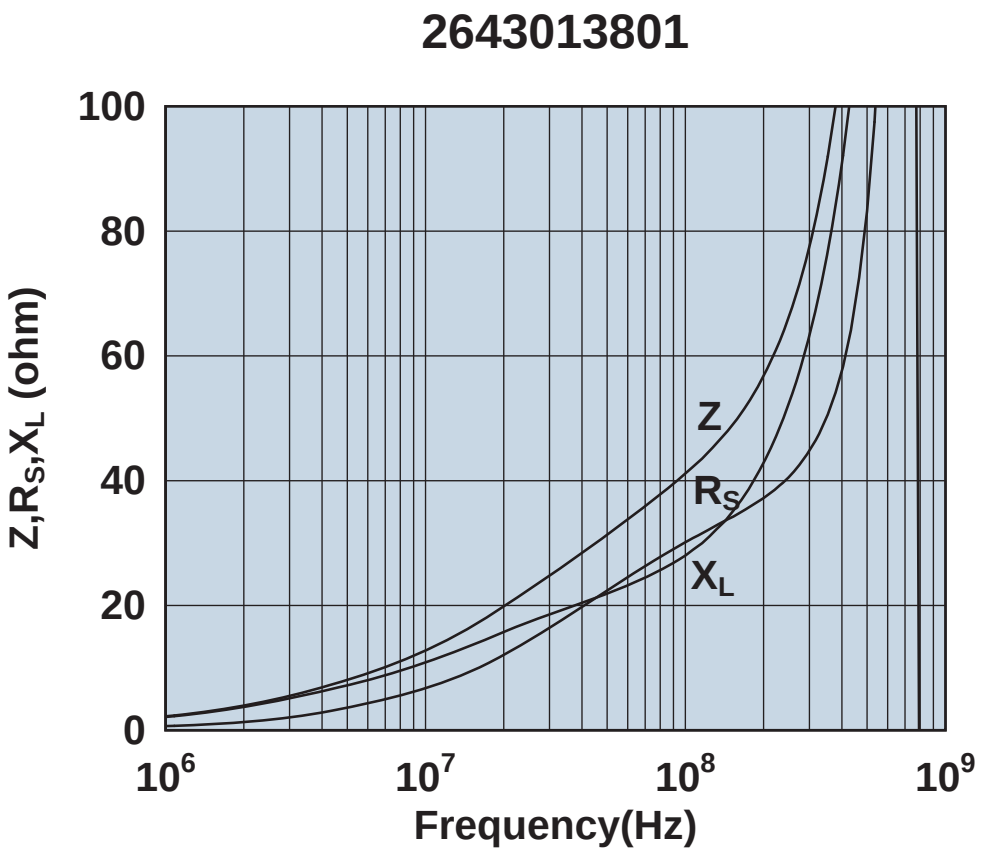
Impedance, reactance, and resistance vs. frequency.



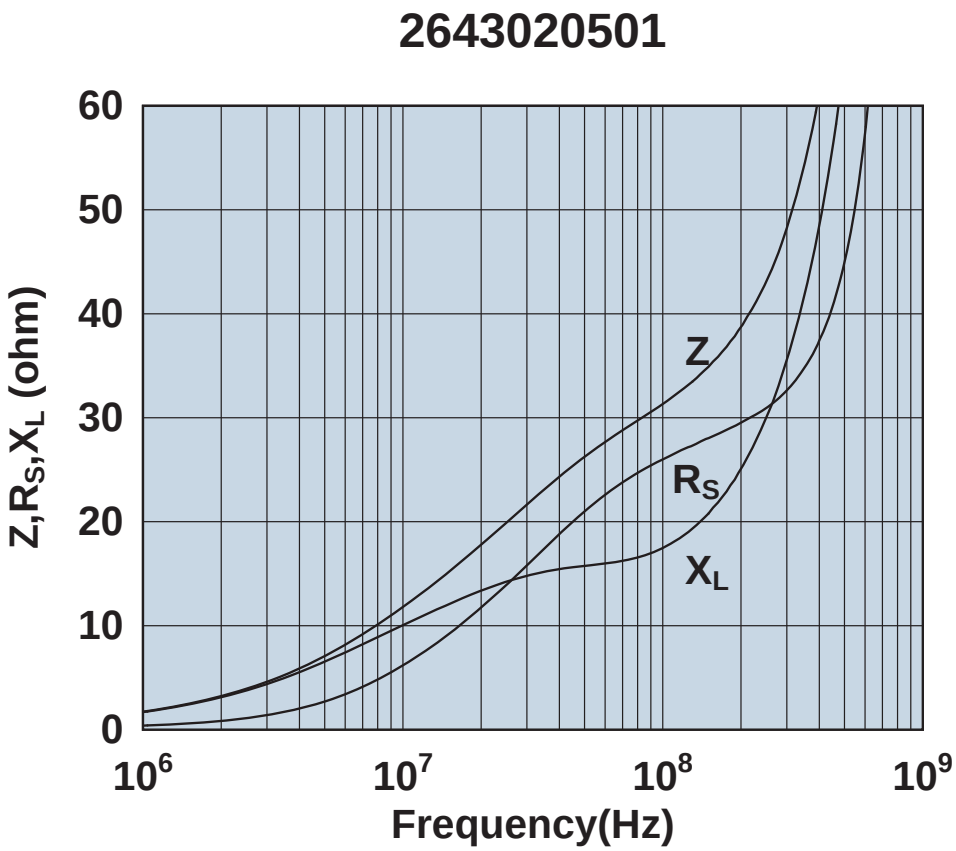
Impedance, reactance, and resistance vs. frequency.



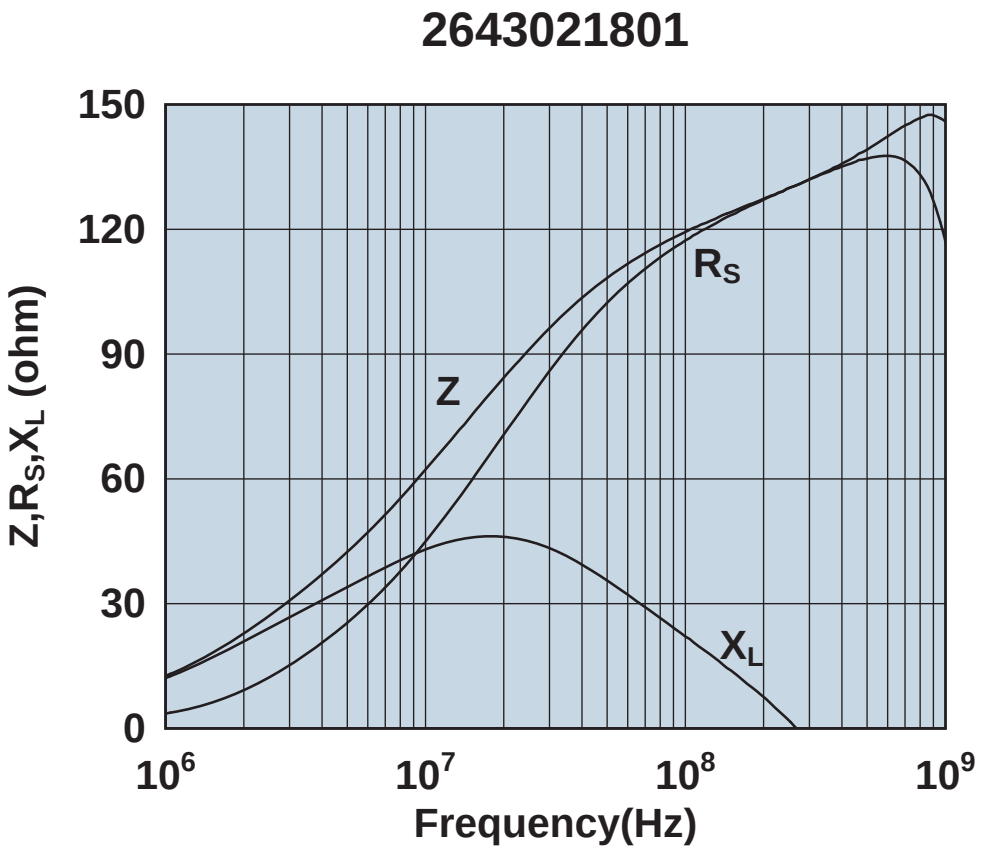
Impedance, reactance, and resistance vs. frequency.



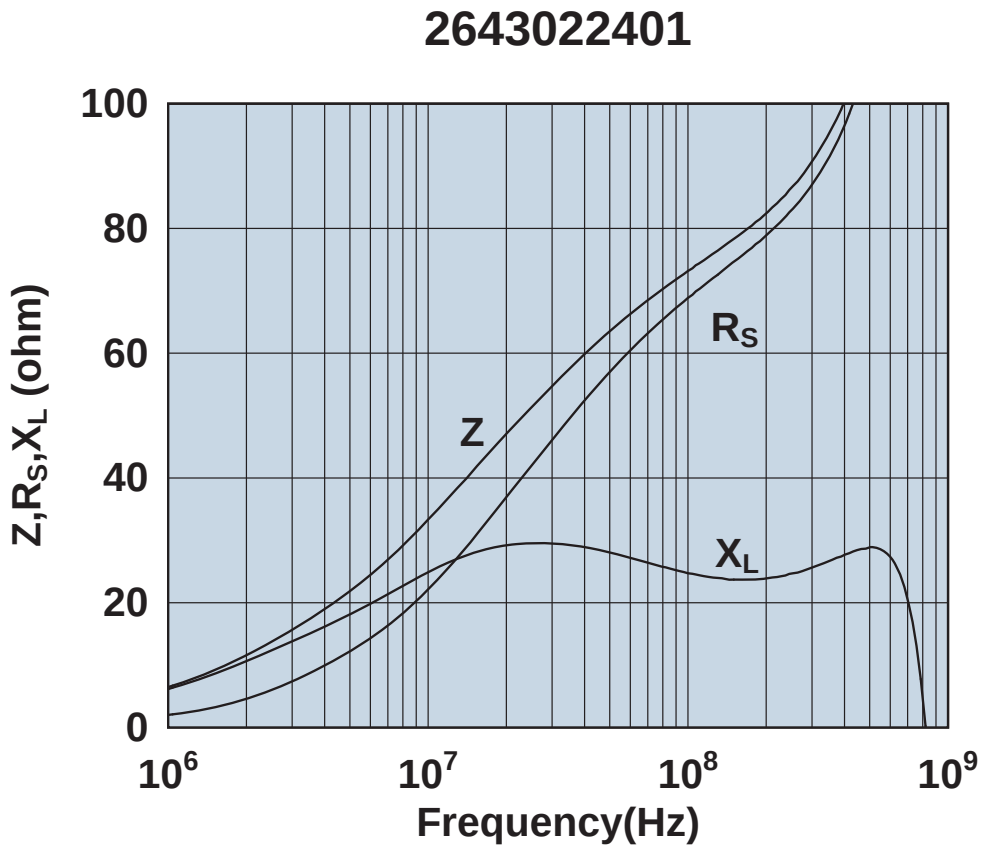
Impedance, reactance, and resistance vs. frequency.



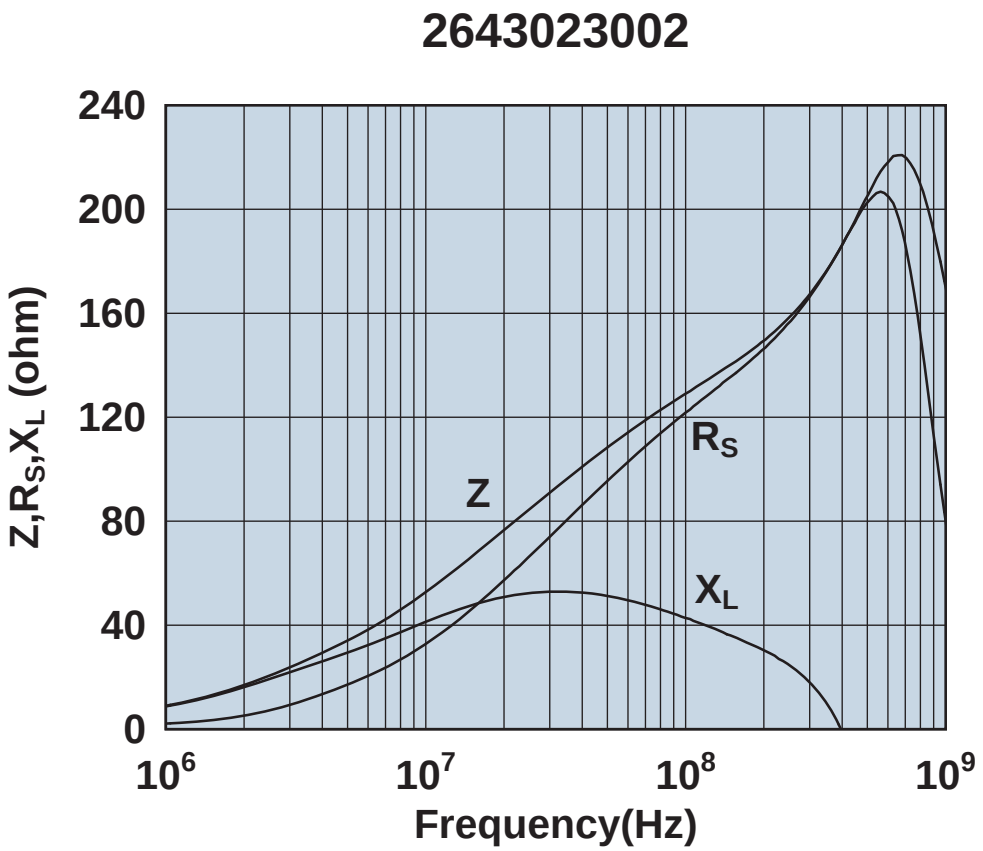
Impedance, reactance, and resistance vs. frequency.



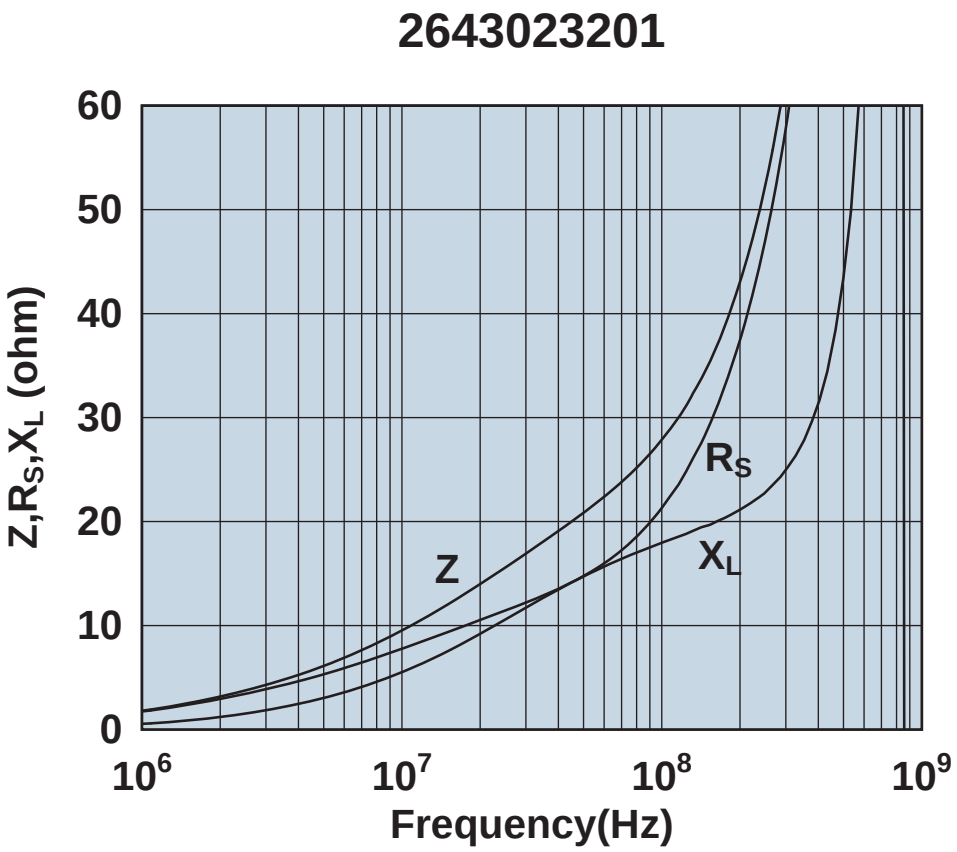
Impedance, reactance, and resistance vs. frequency.



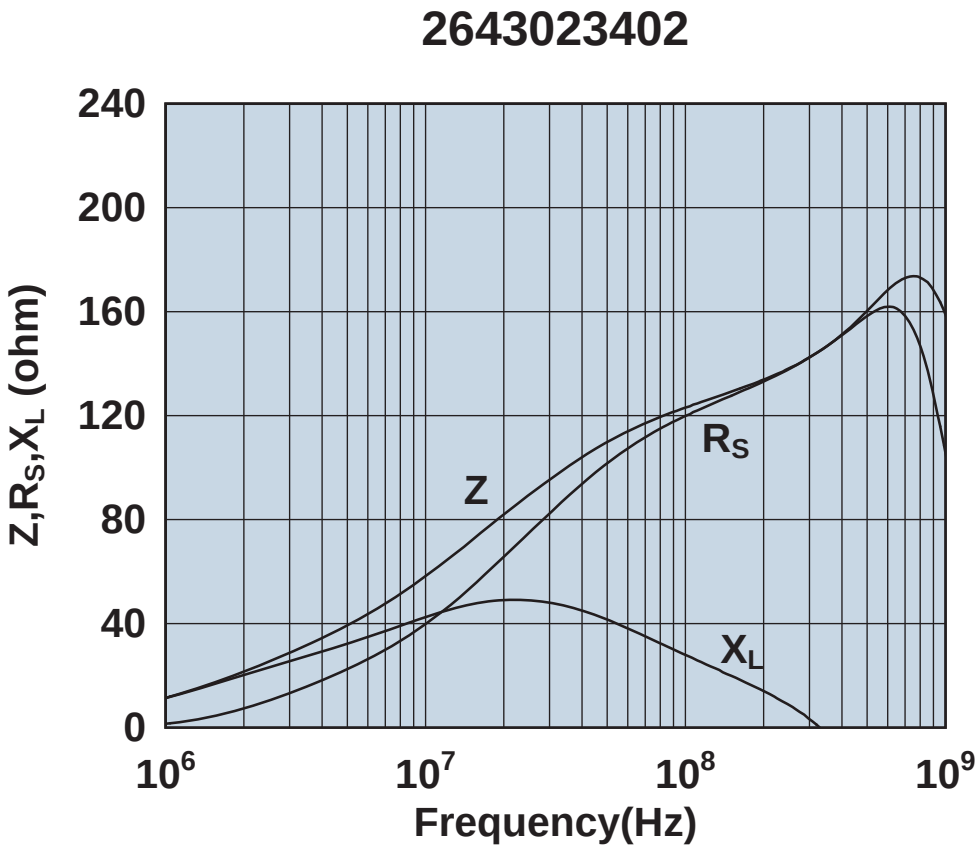
Impedance, reactance, and resistance vs. frequency.



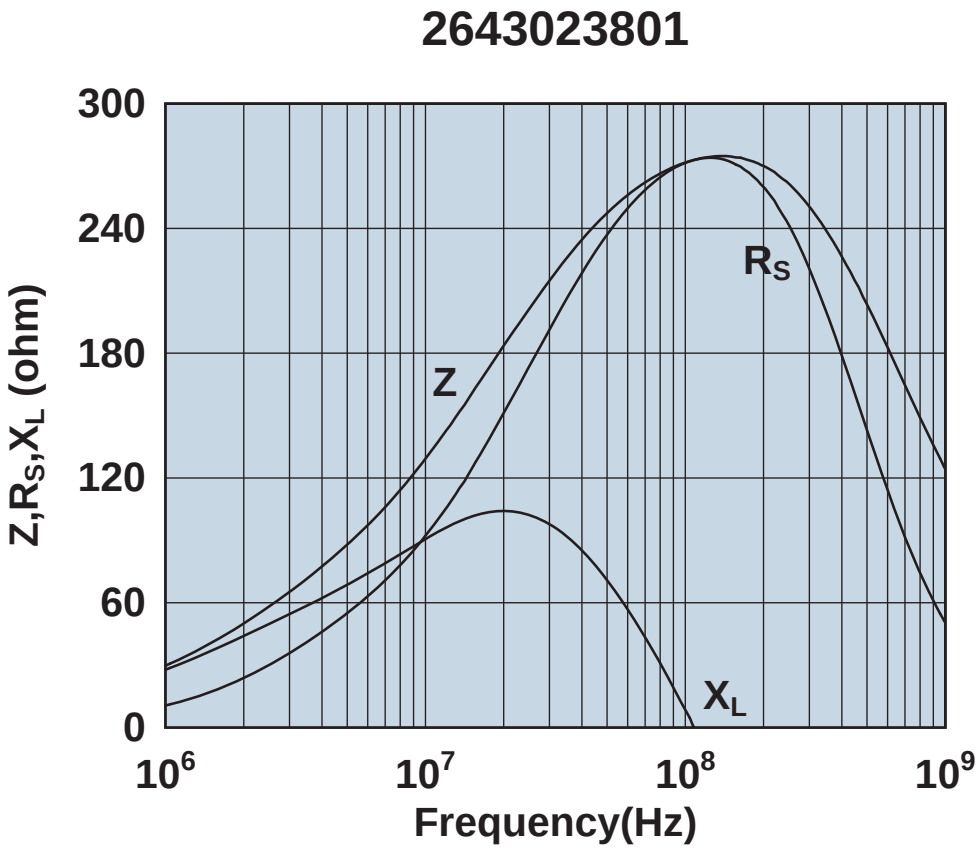
Impedance, reactance, and resistance vs. frequency.



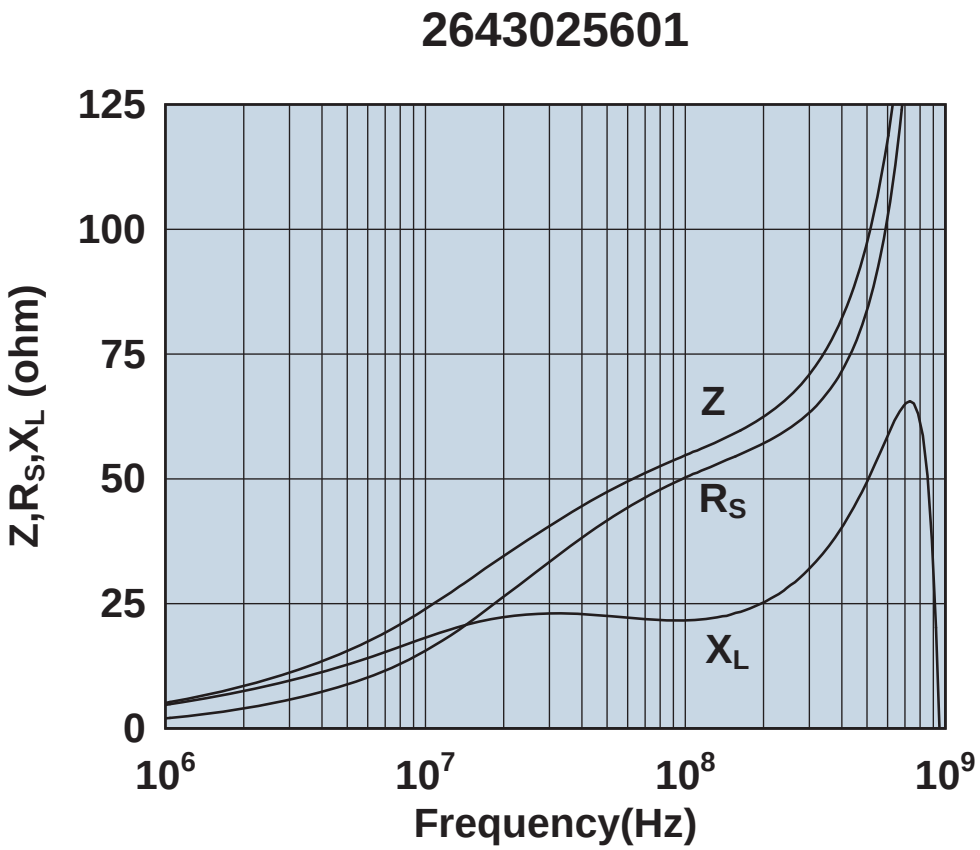
Impedance, reactance, and resistance vs. frequency.



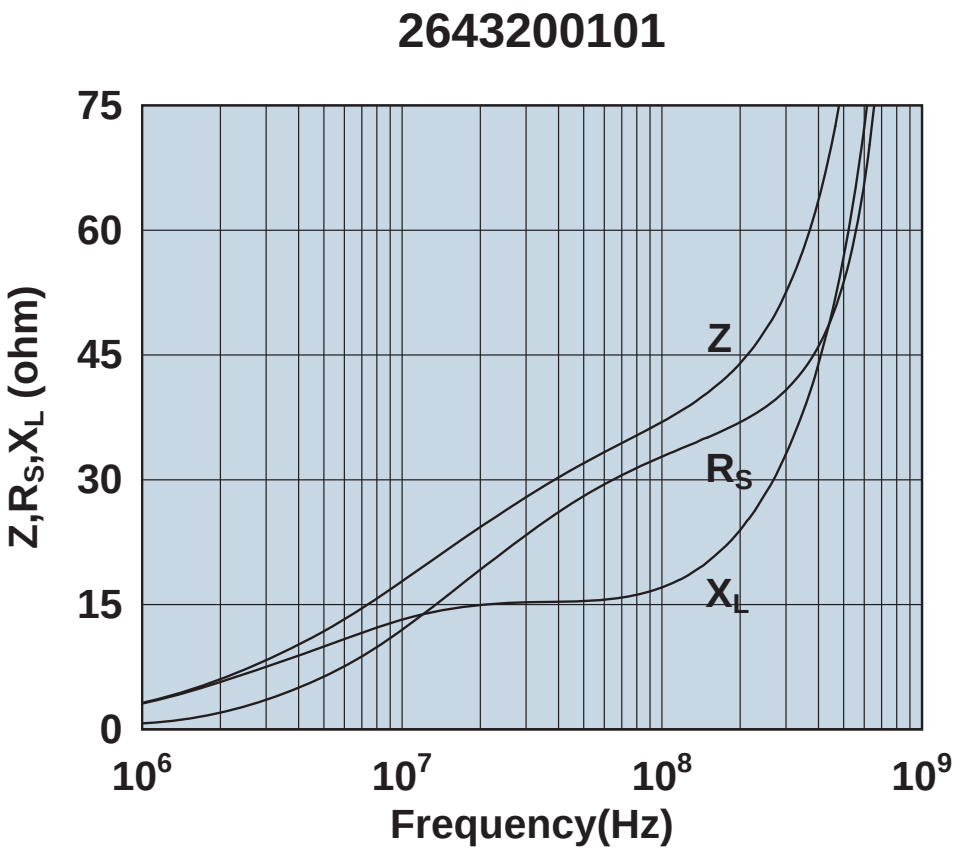
Impedance, reactance, and resistance vs. frequency.



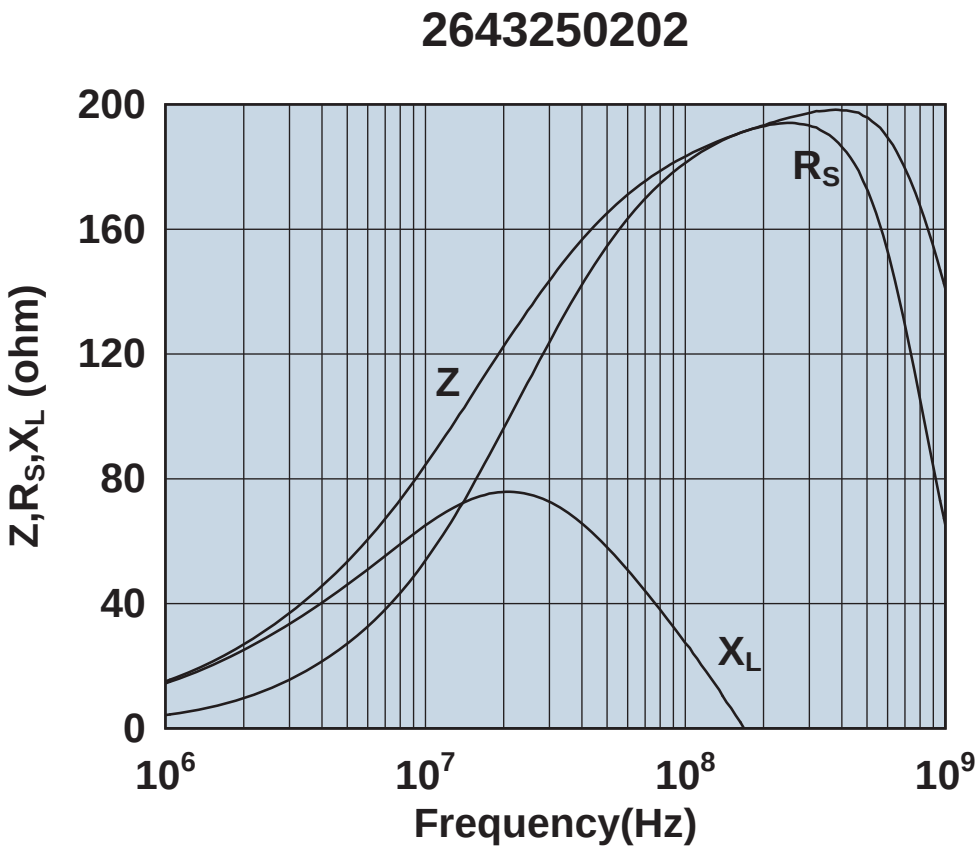
Impedance, reactance, and resistance vs. frequency.



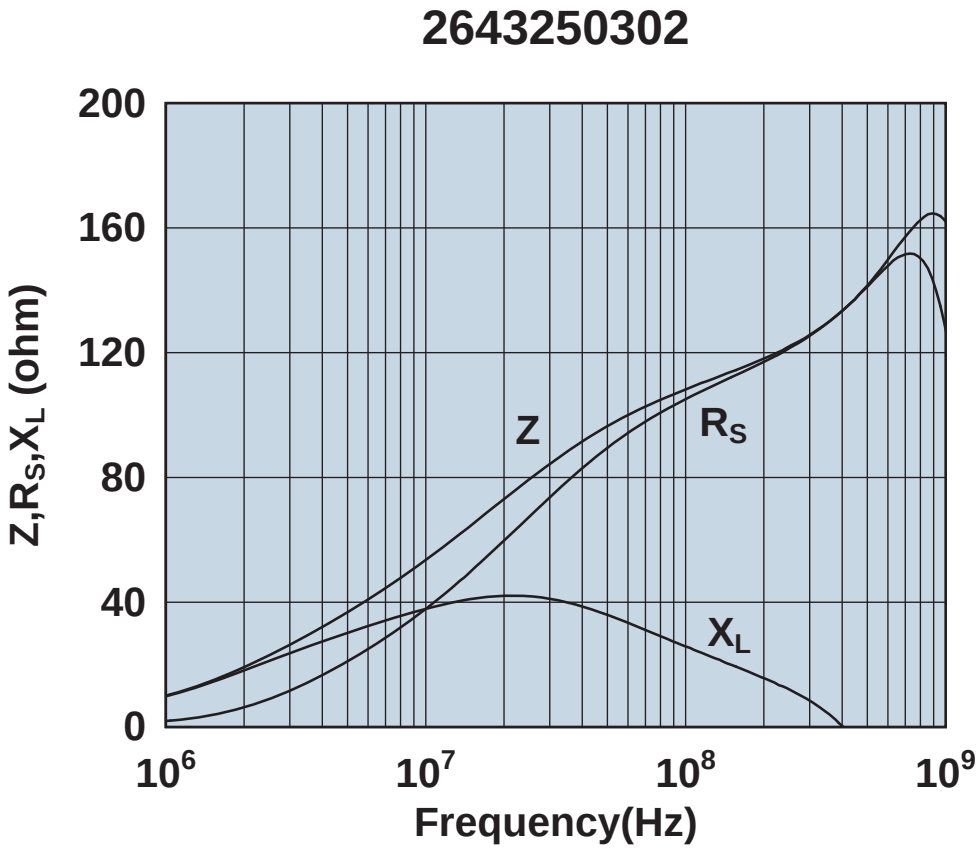
Impedance, reactance, and resistance vs. frequency.



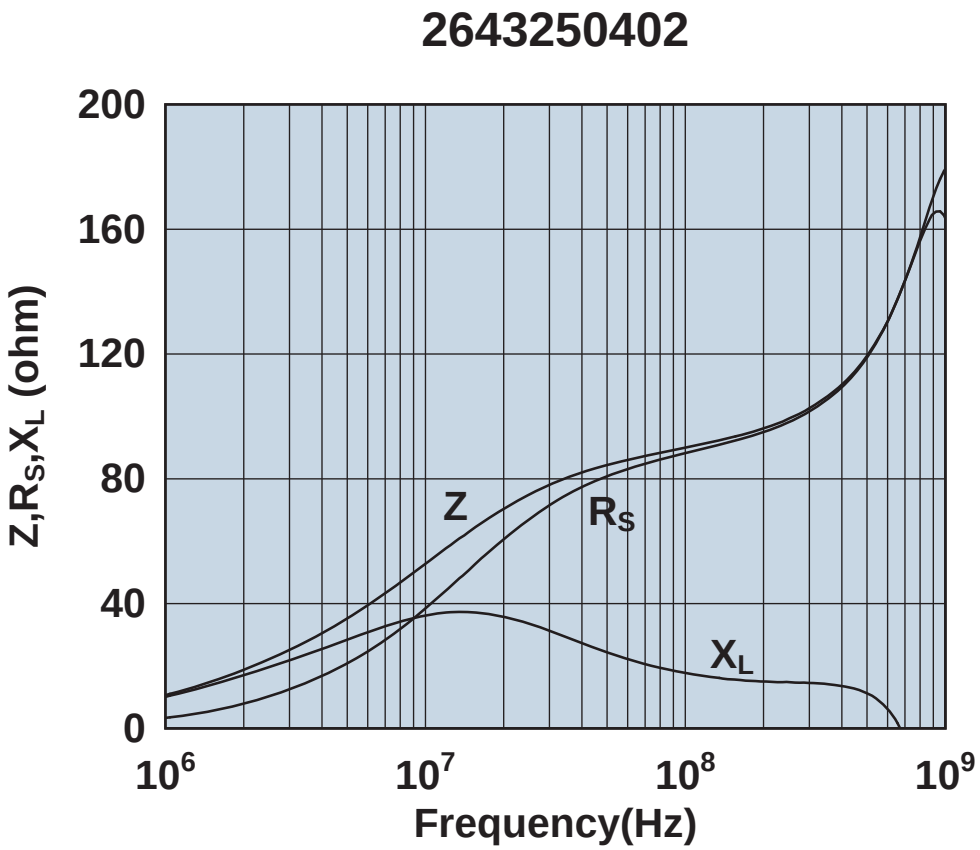
Impedance, reactance, and resistance vs. frequency.



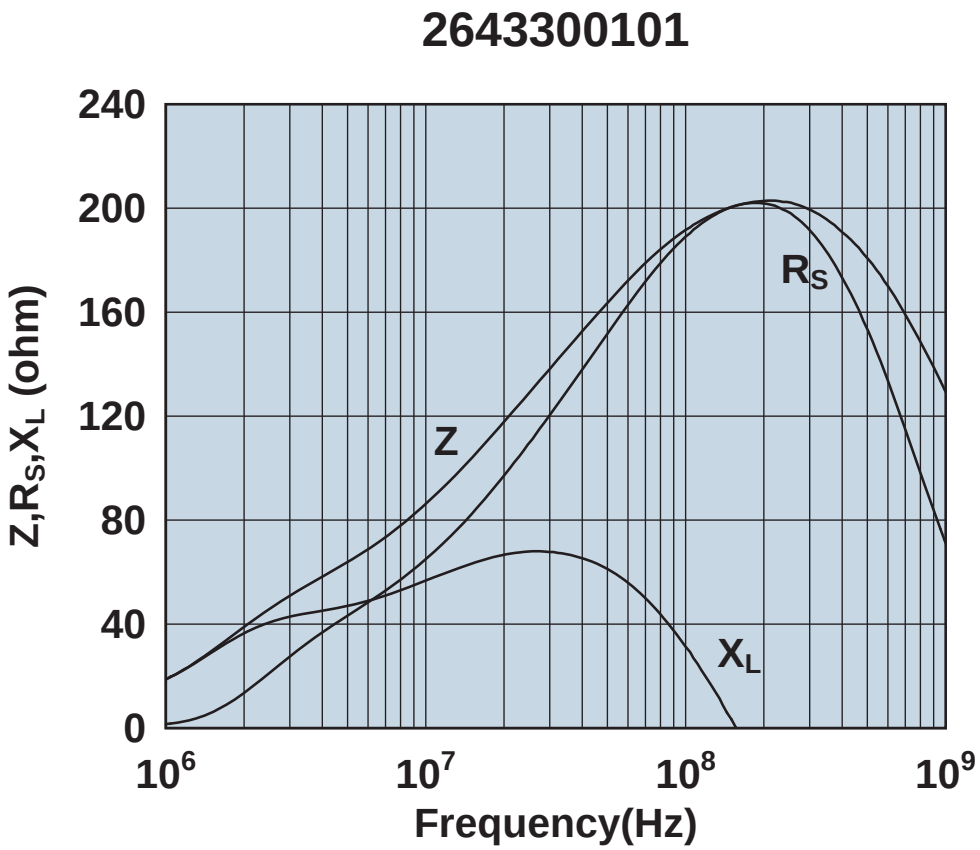
Impedance, reactance, and resistance vs. frequency.



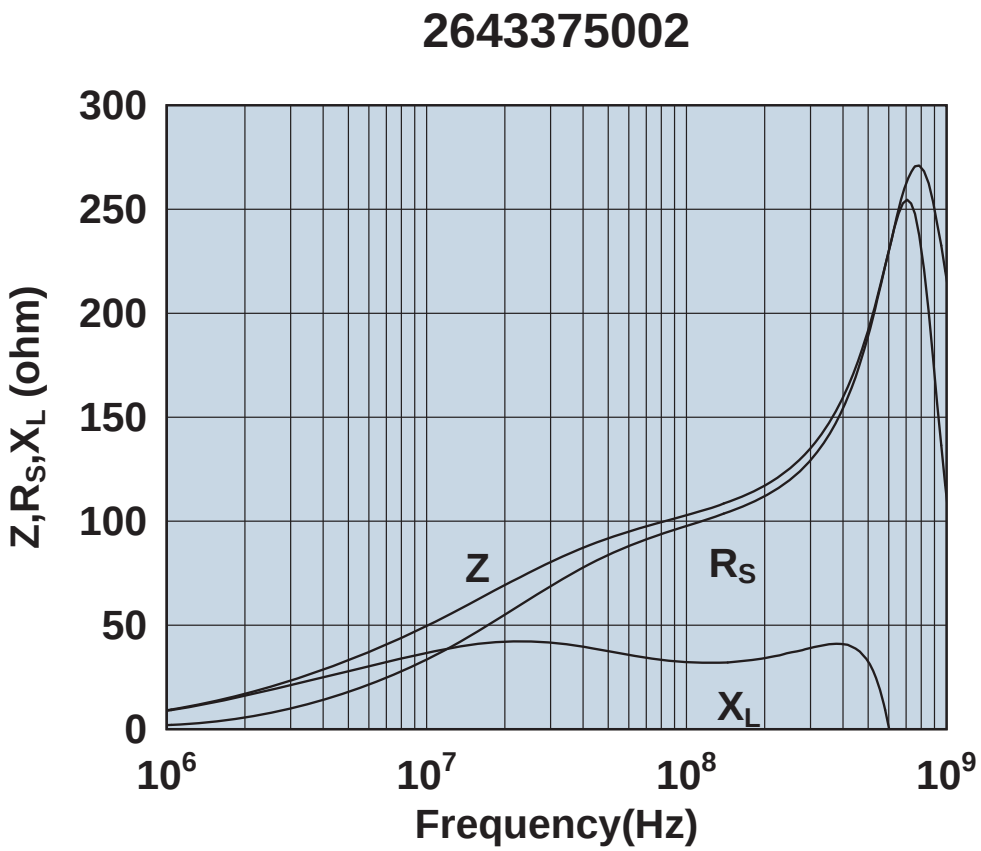
Impedance, reactance, and resistance vs. frequency.



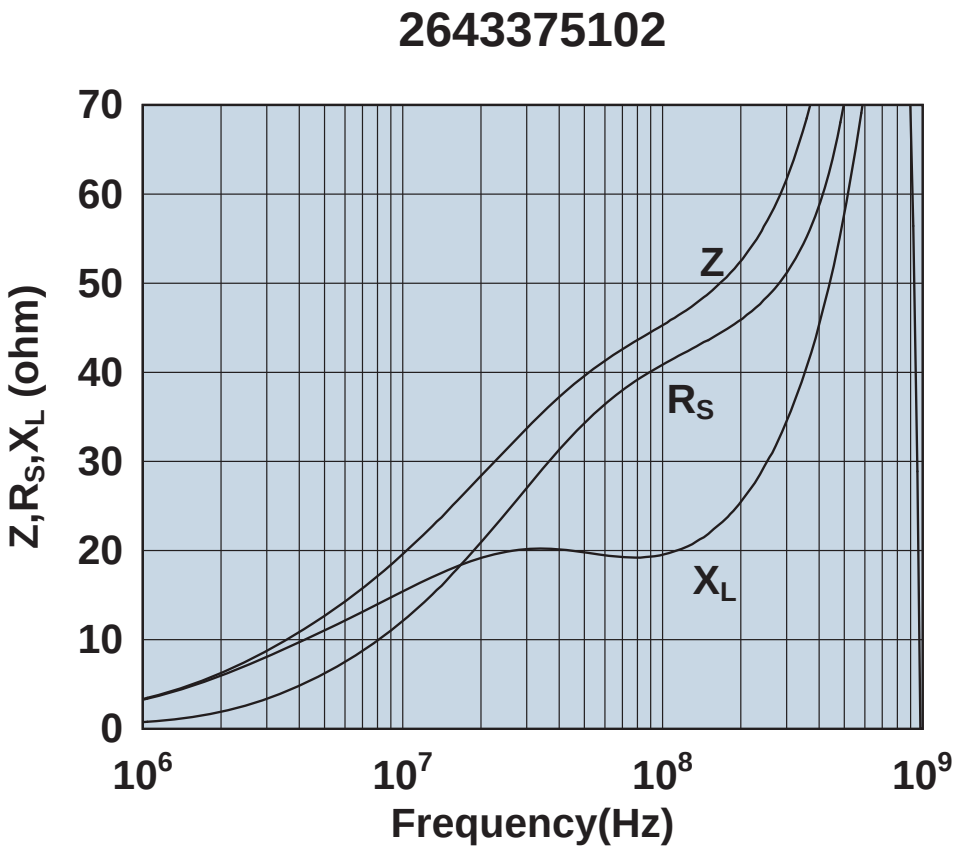
Impedance, reactance, and resistance vs. frequency.



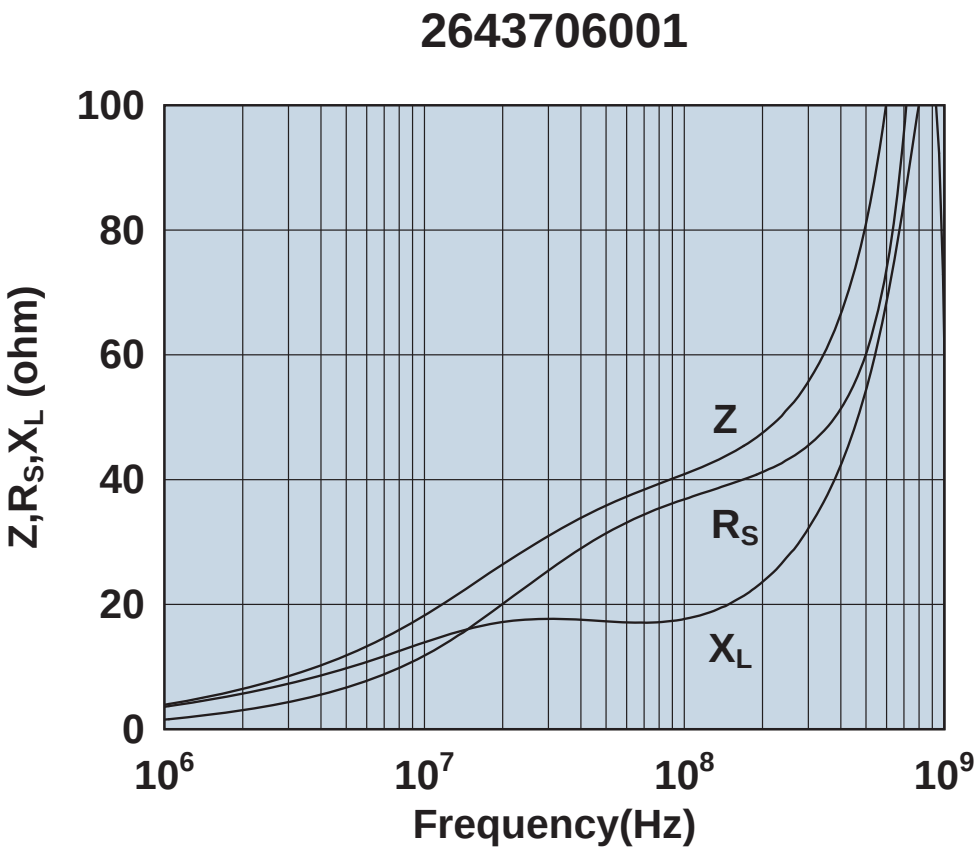
Impedance, reactance, and resistance vs. frequency.



Impedance, reactance, and resistance vs. frequency.

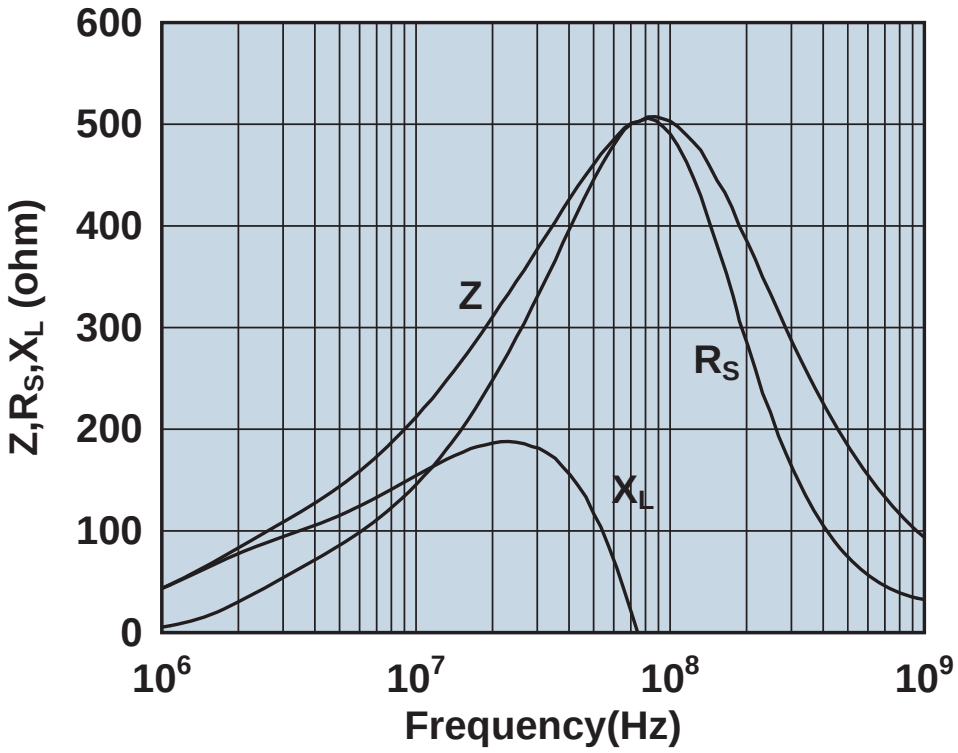


Impedance, reactance, and resistance vs. frequency.

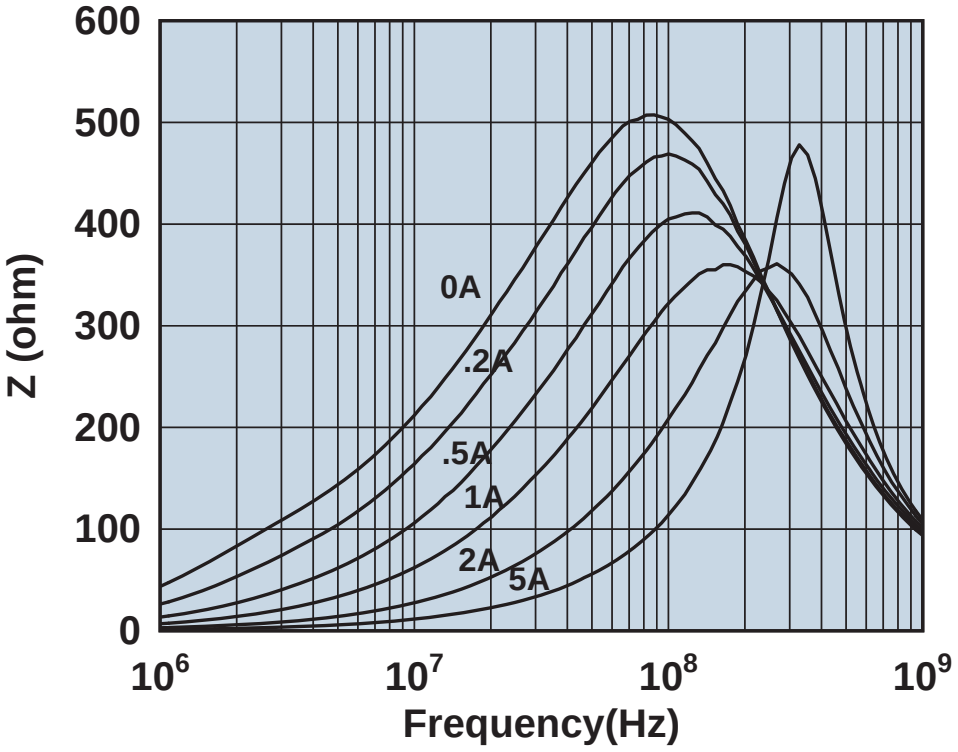


Impedance, reactance, and resistance vs. frequency.

2644666611

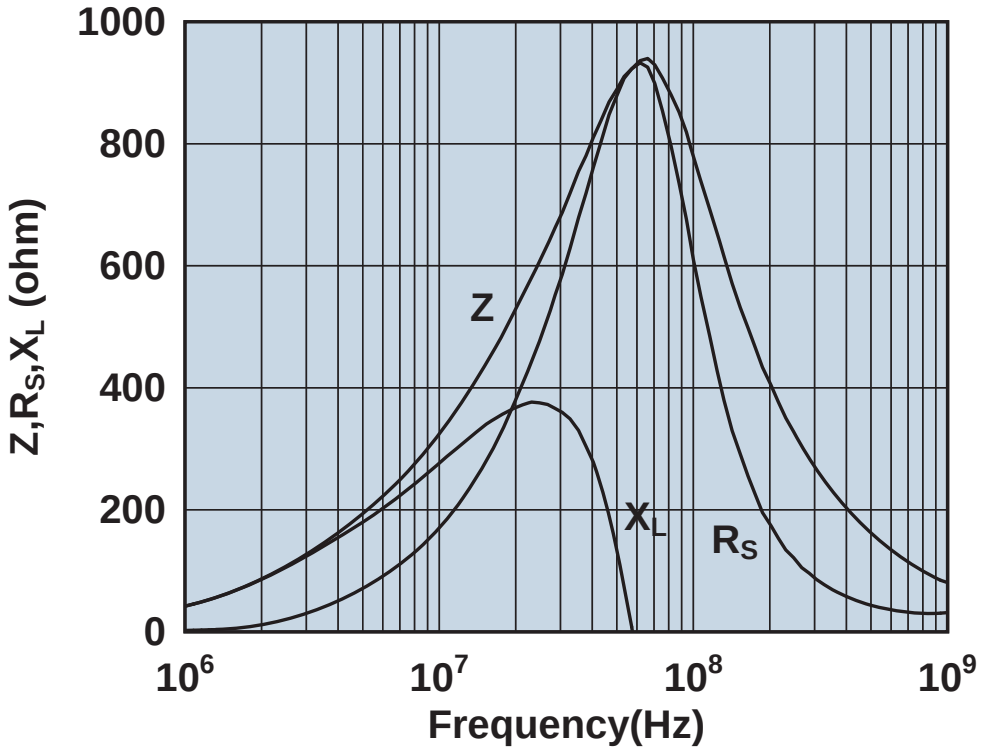


Impedance, reactance, and resistance vs. frequency.

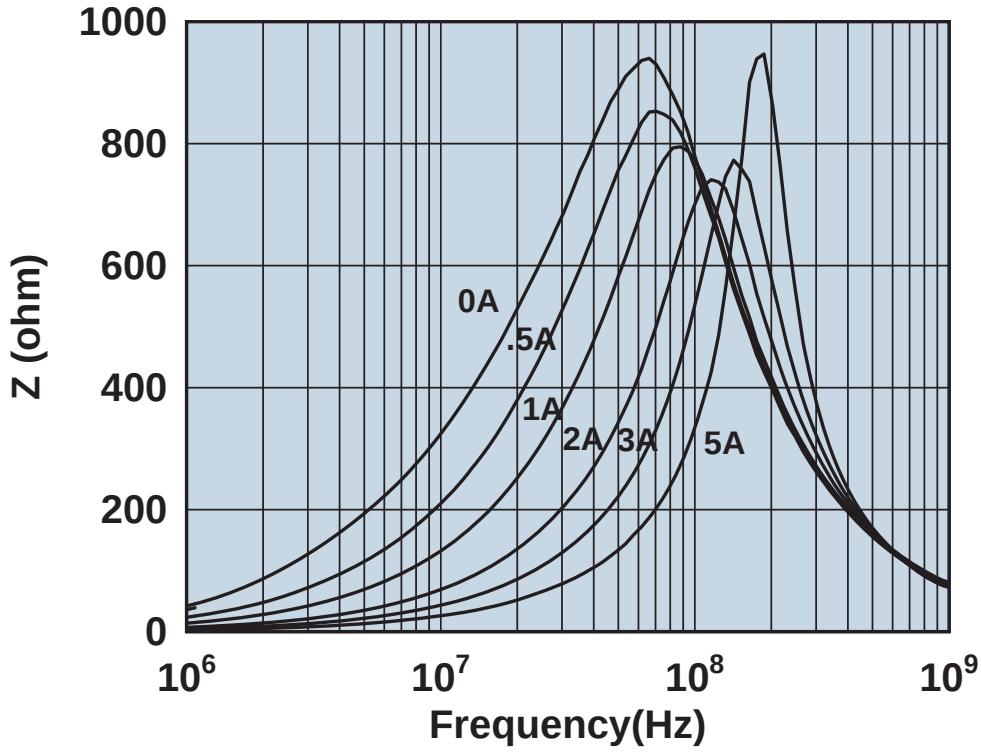


Impedance vs. frequency with dc bias.

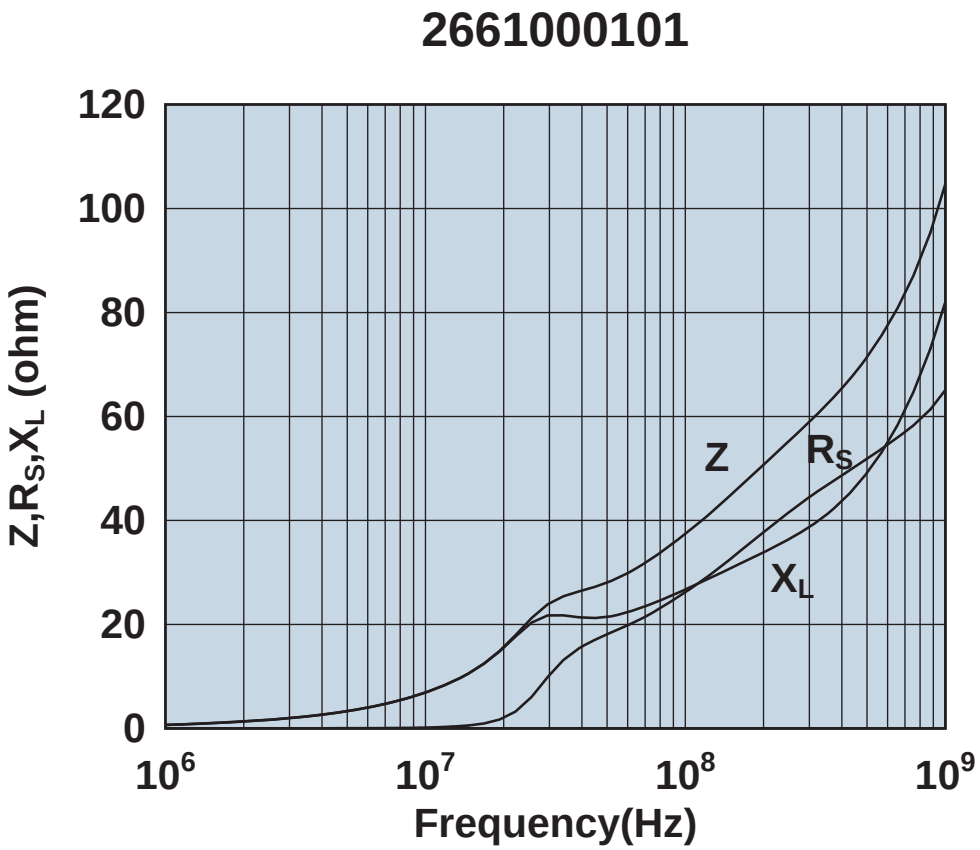
2644777711



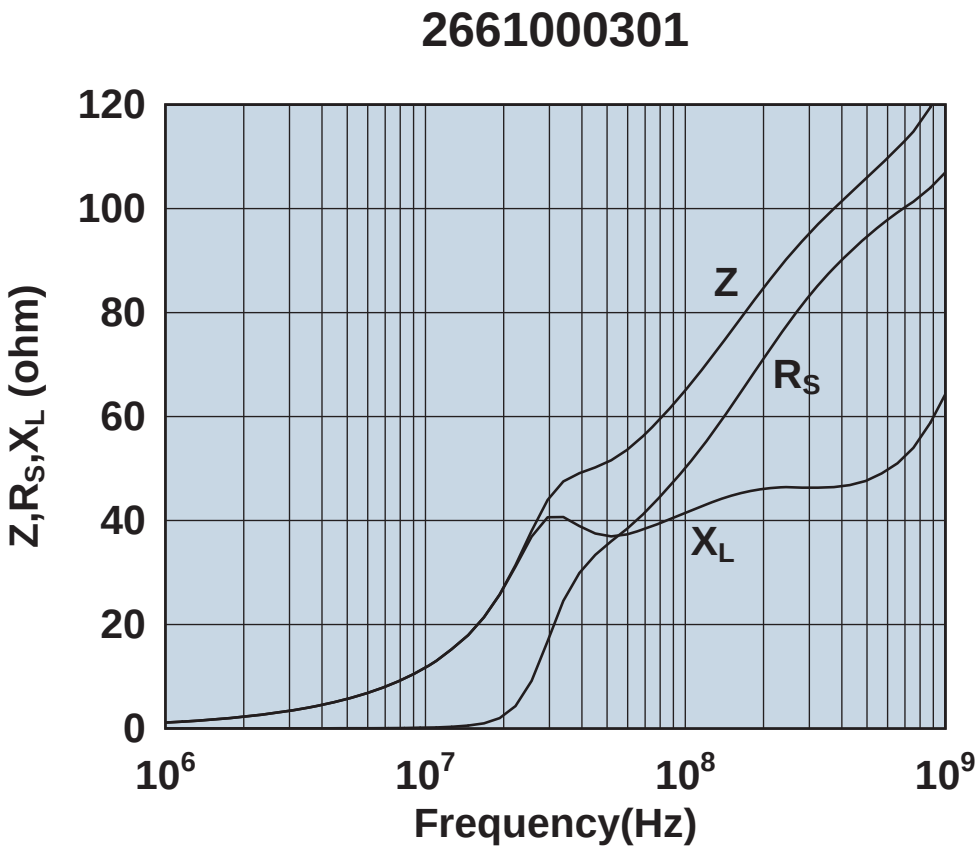
Impedance, reactance, and resistance vs. frequency.



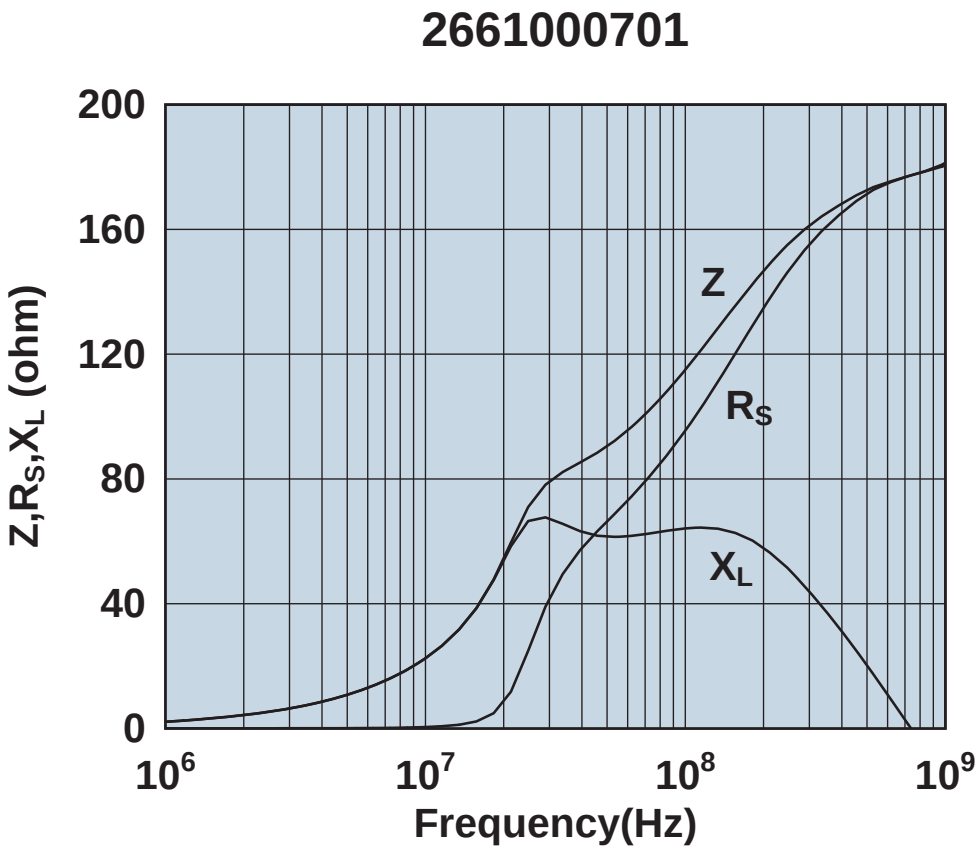
Impedance vs. frequency with dc bias.



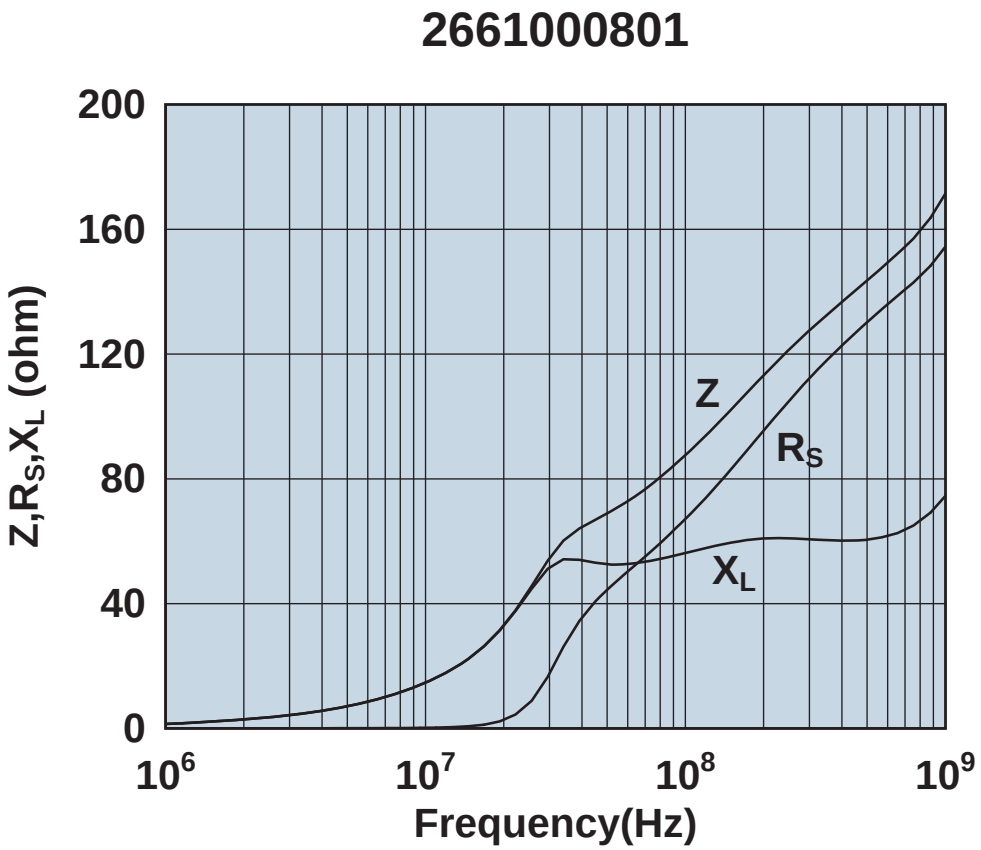
Impedance, reactance, and resistance vs. frequency.



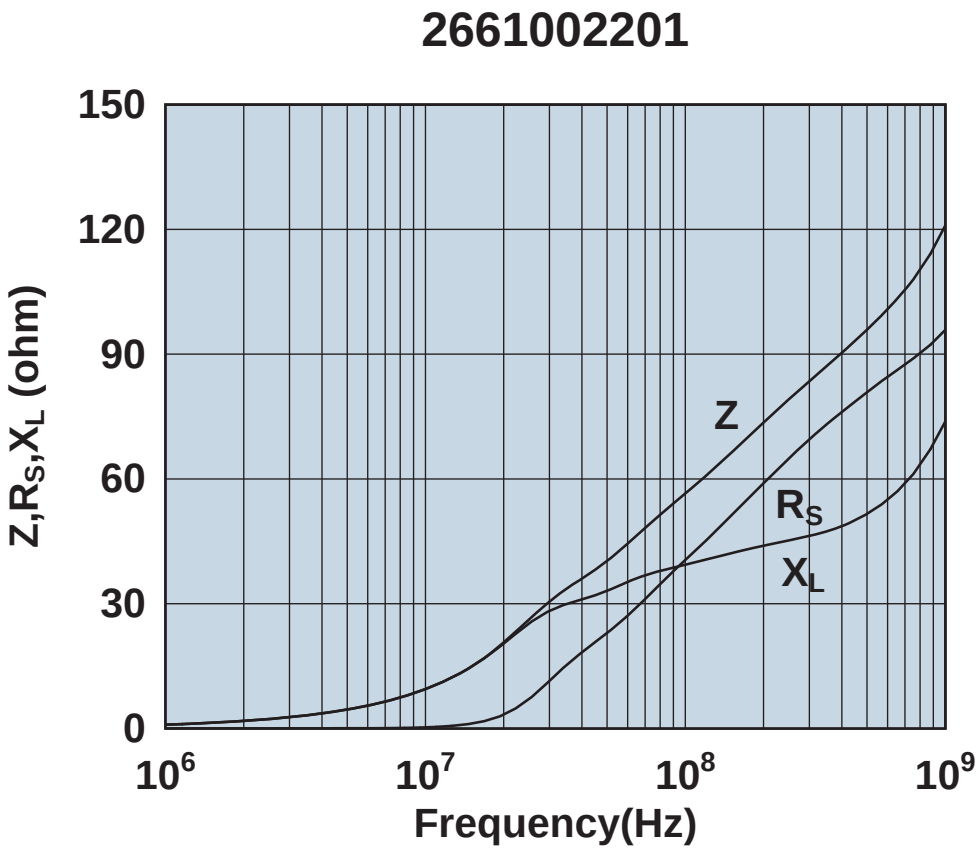
Impedance, reactance, and resistance vs. frequency.



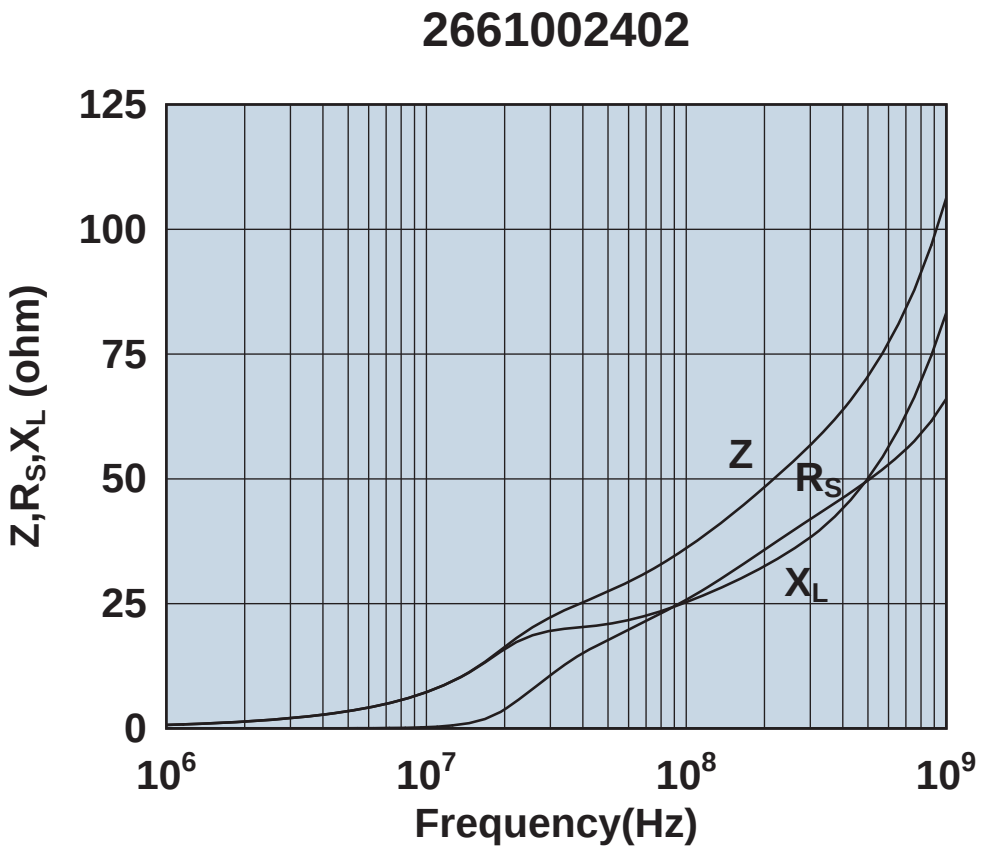
Impedance, reactance, and resistance vs. frequency.



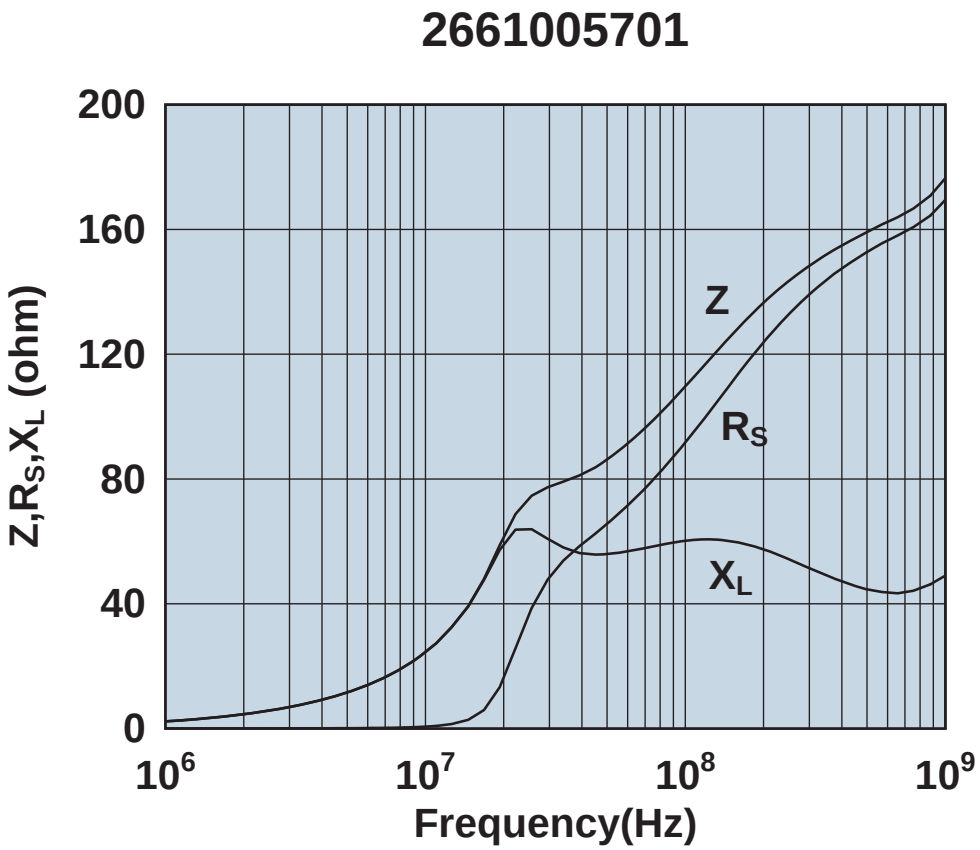
Impedance, reactance, and resistance vs. frequency.



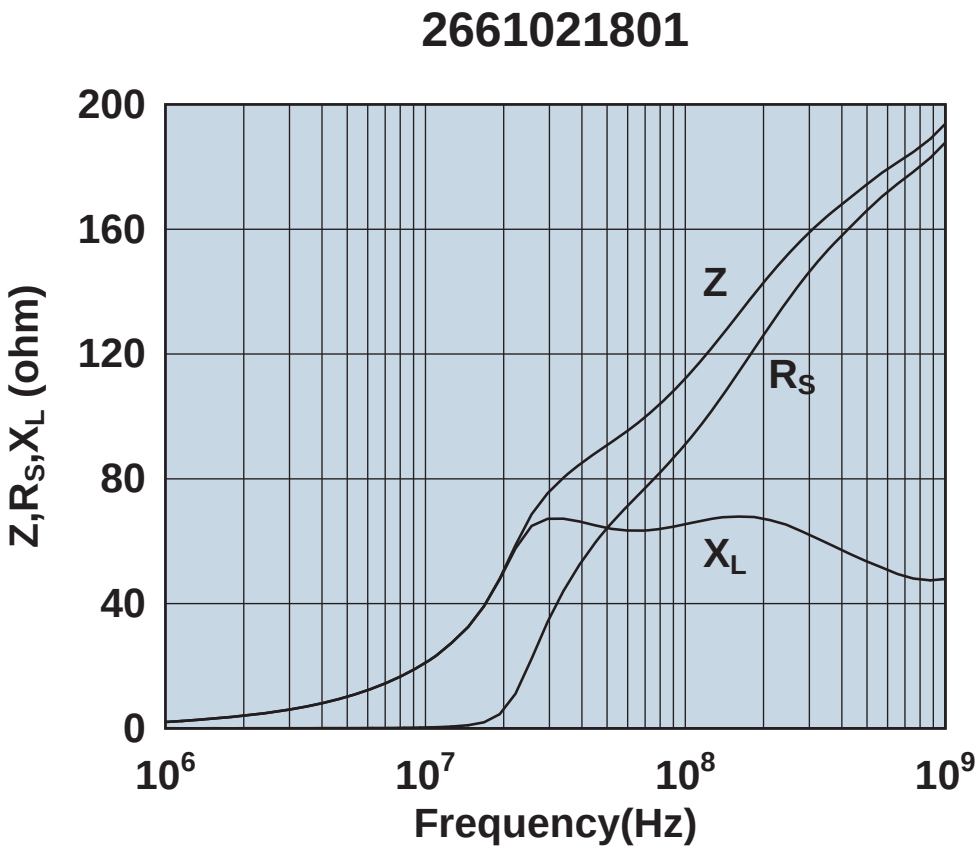
Impedance, reactance, and resistance vs. frequency.



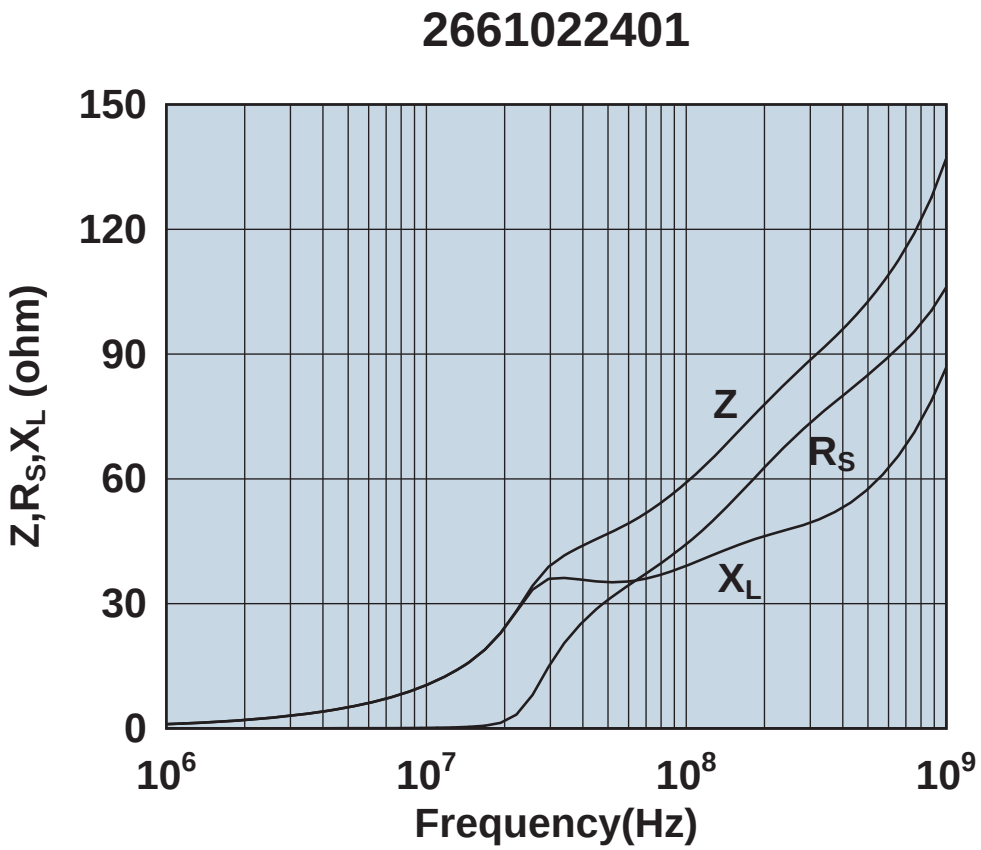
Impedance, reactance, and resistance vs. frequency.



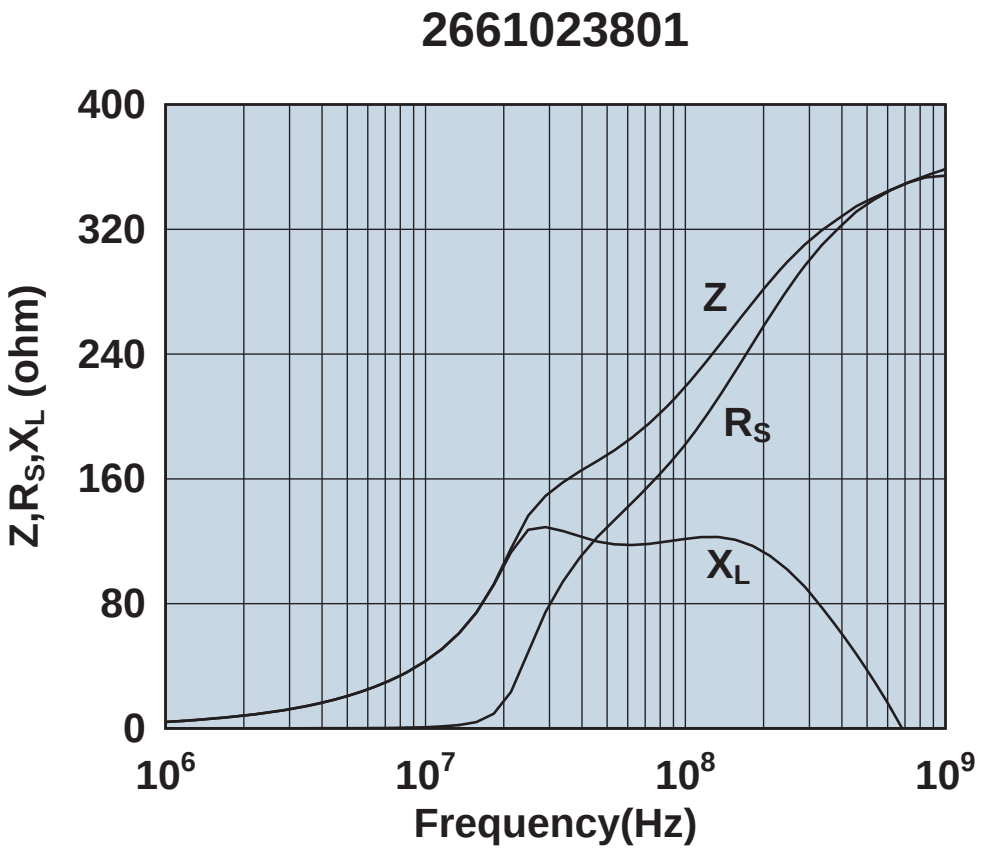
Impedance, reactance, and resistance vs. frequency.



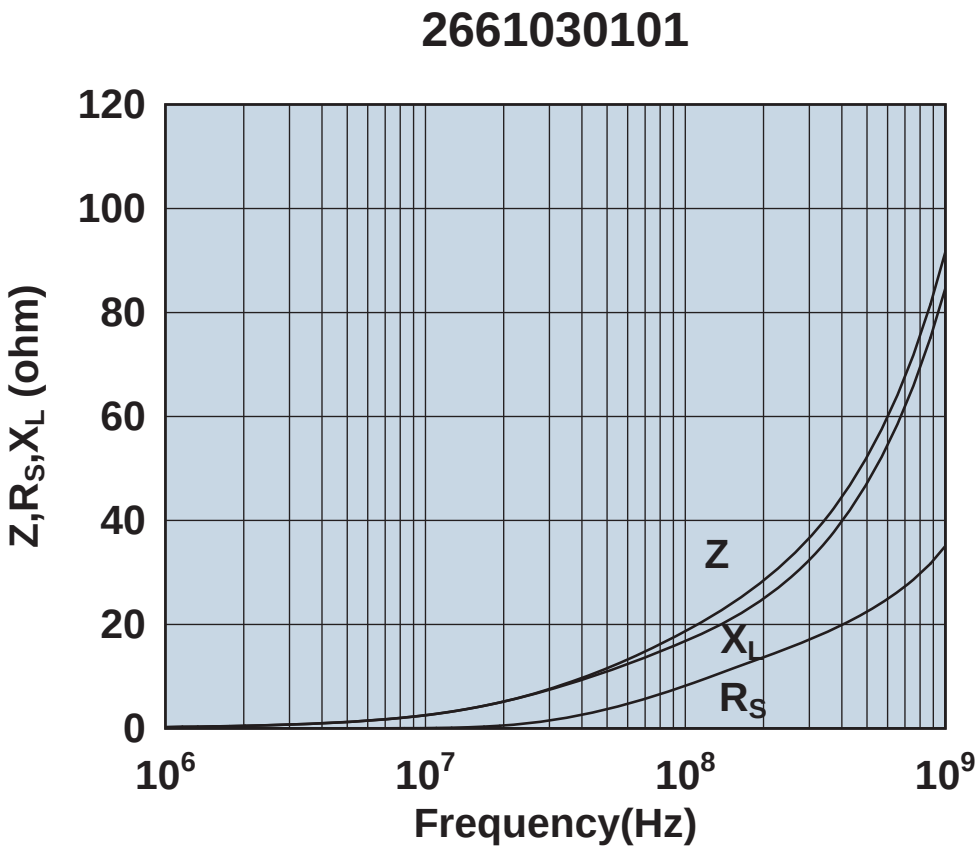
Impedance, reactance, and resistance vs. frequency.



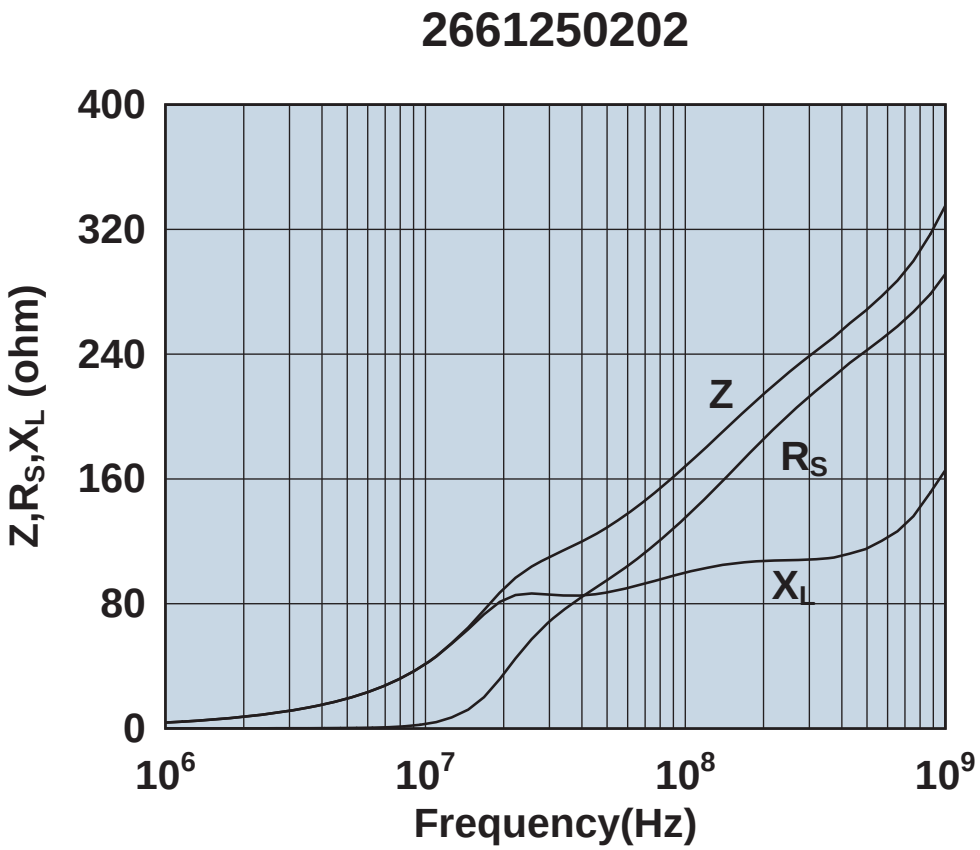
Impedance, reactance, and resistance vs. frequency.



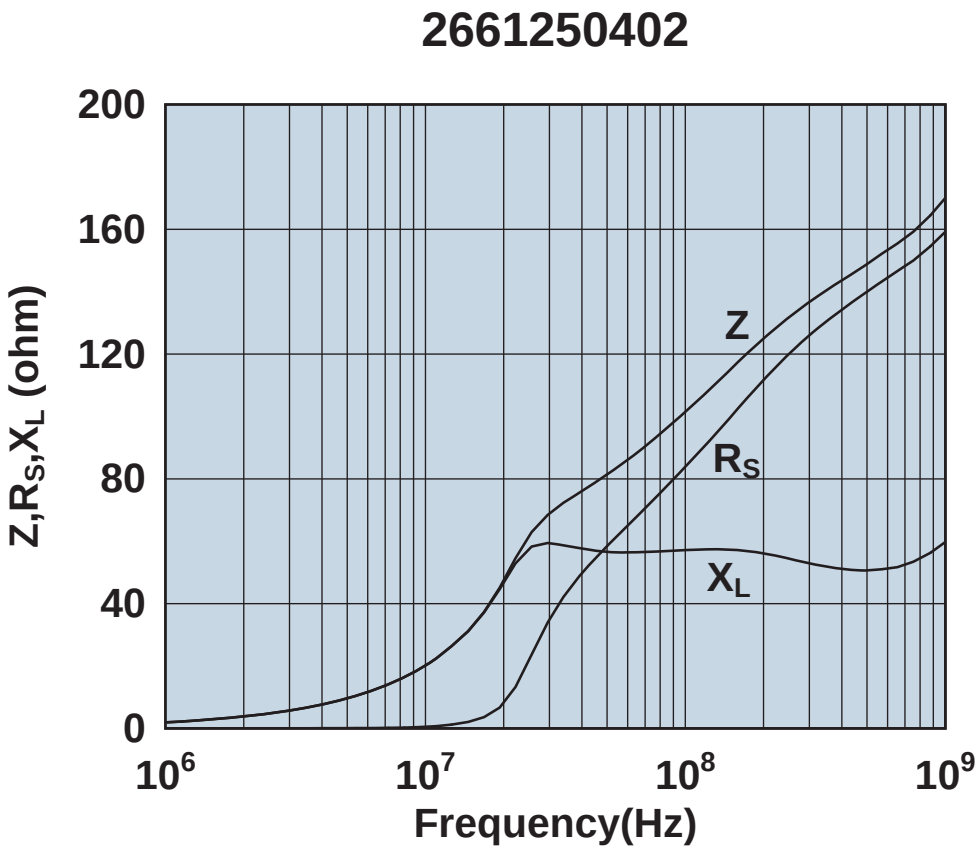
Impedance, reactance, and resistance vs. frequency.



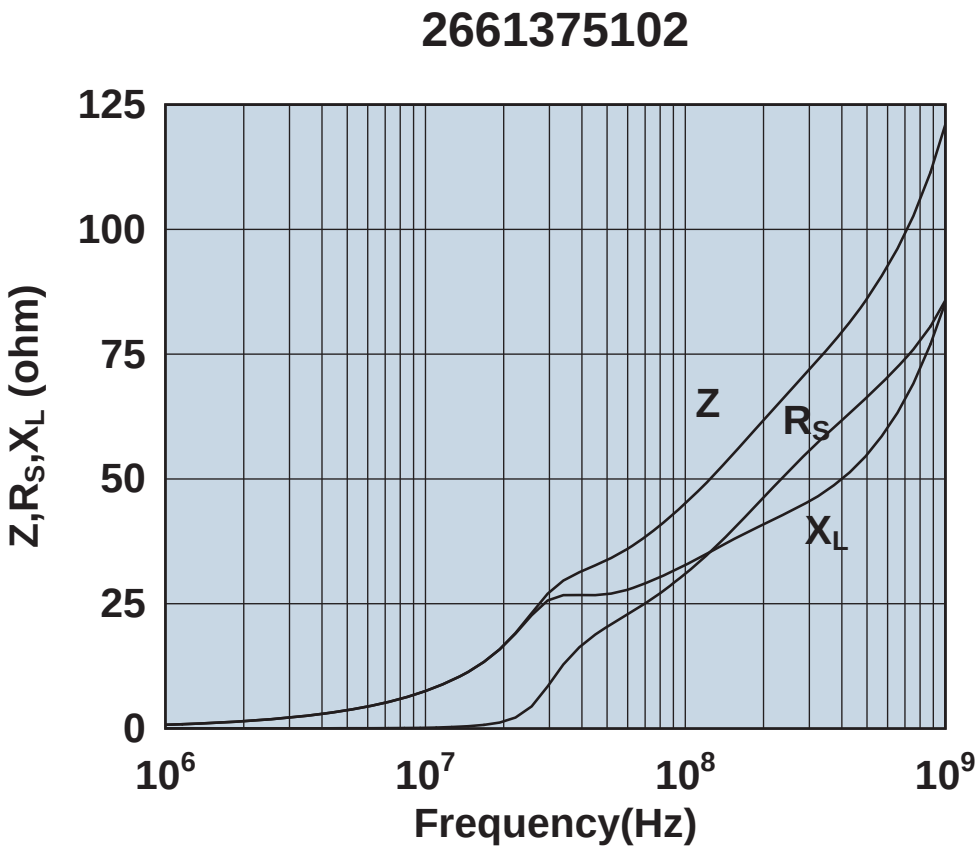
Impedance, reactance, and resistance vs. frequency.



Impedance, reactance, and resistance vs. frequency.

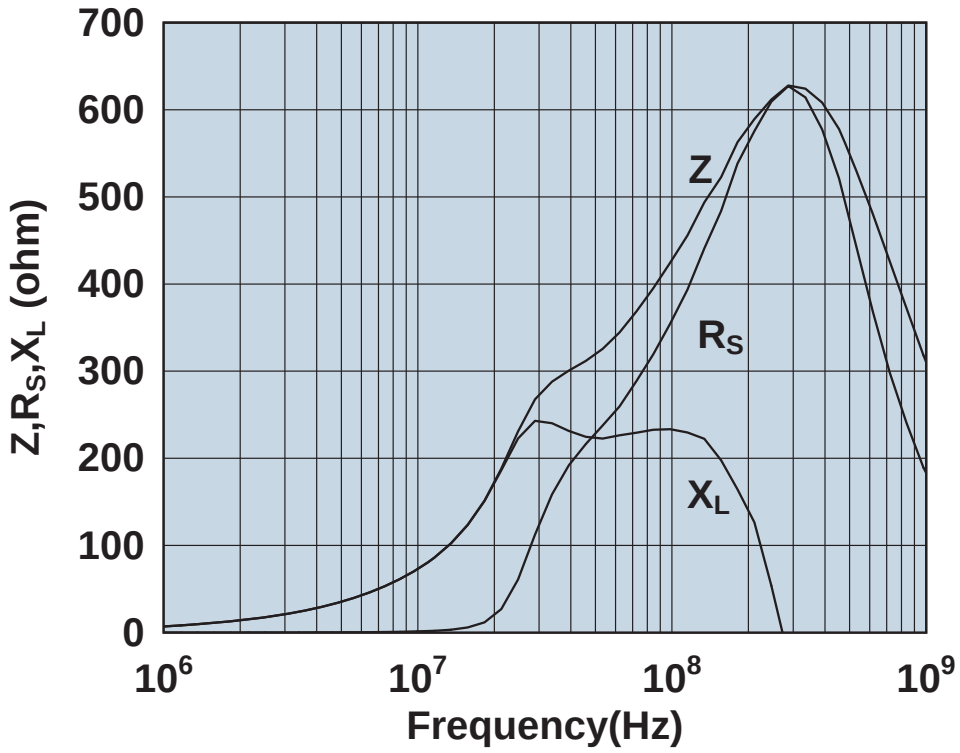


Impedance, reactance, and resistance vs. frequency.

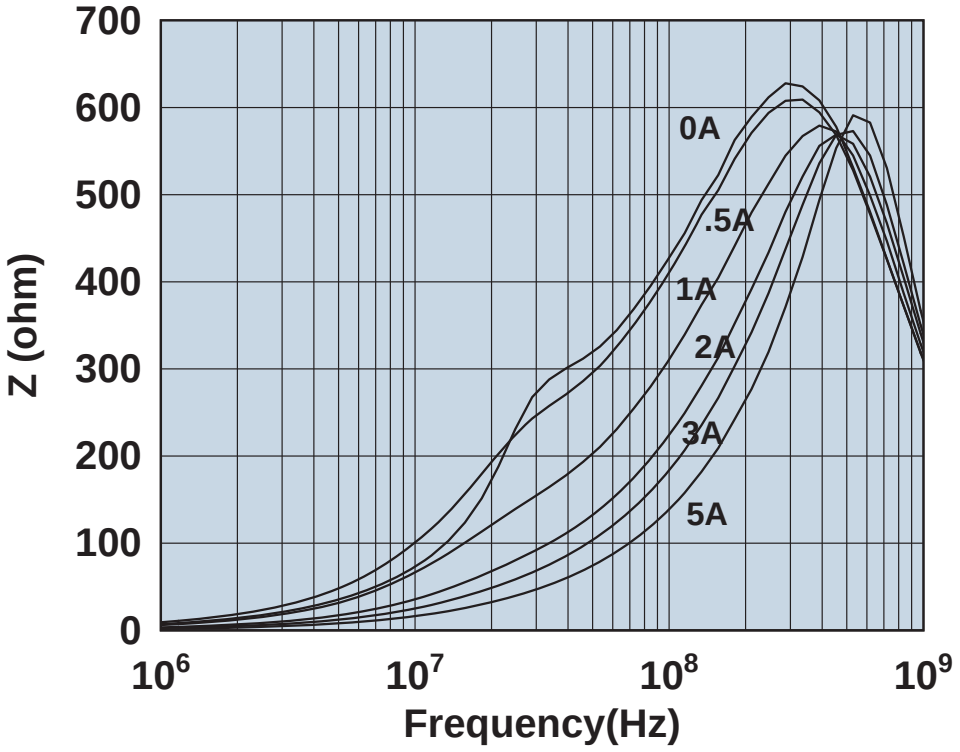


Impedance, reactance, and resistance vs. frequency.

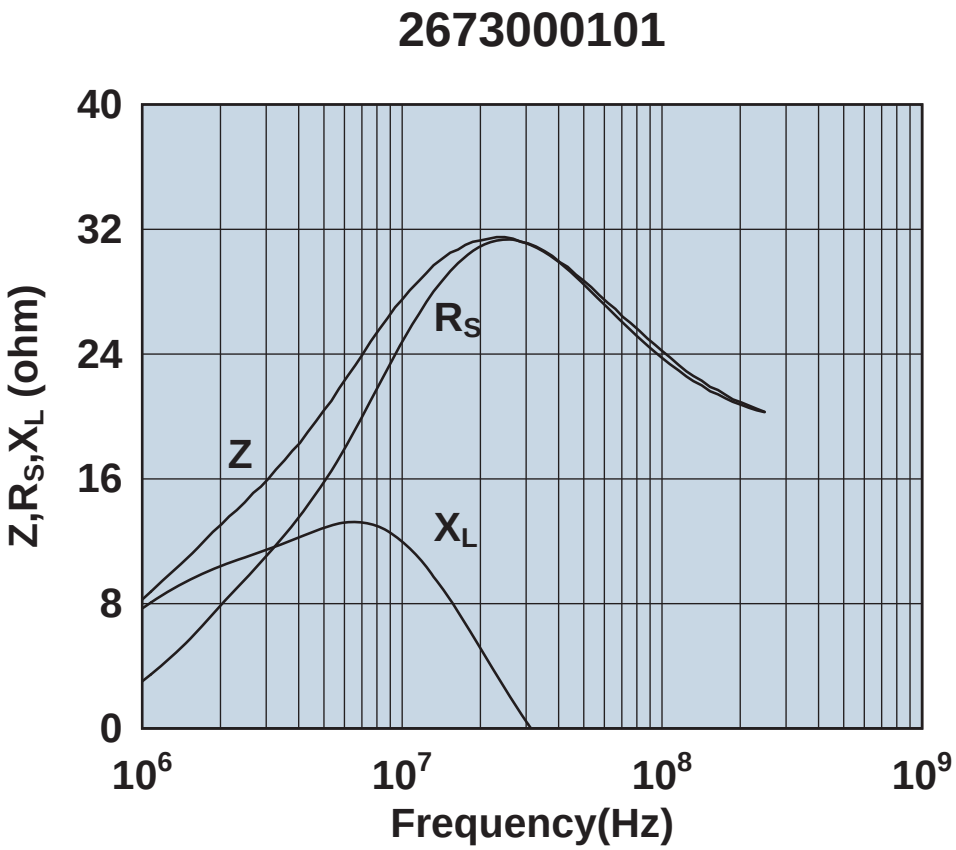
2661666611



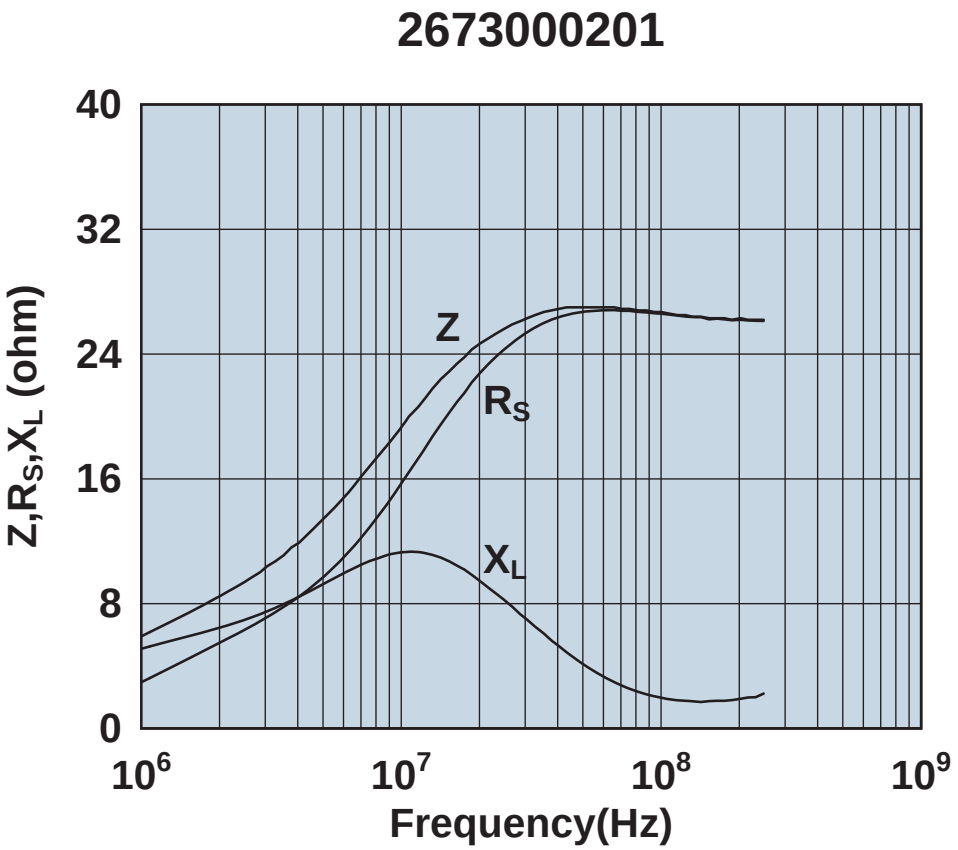
Impedance, reactance, and resistance vs. frequency.



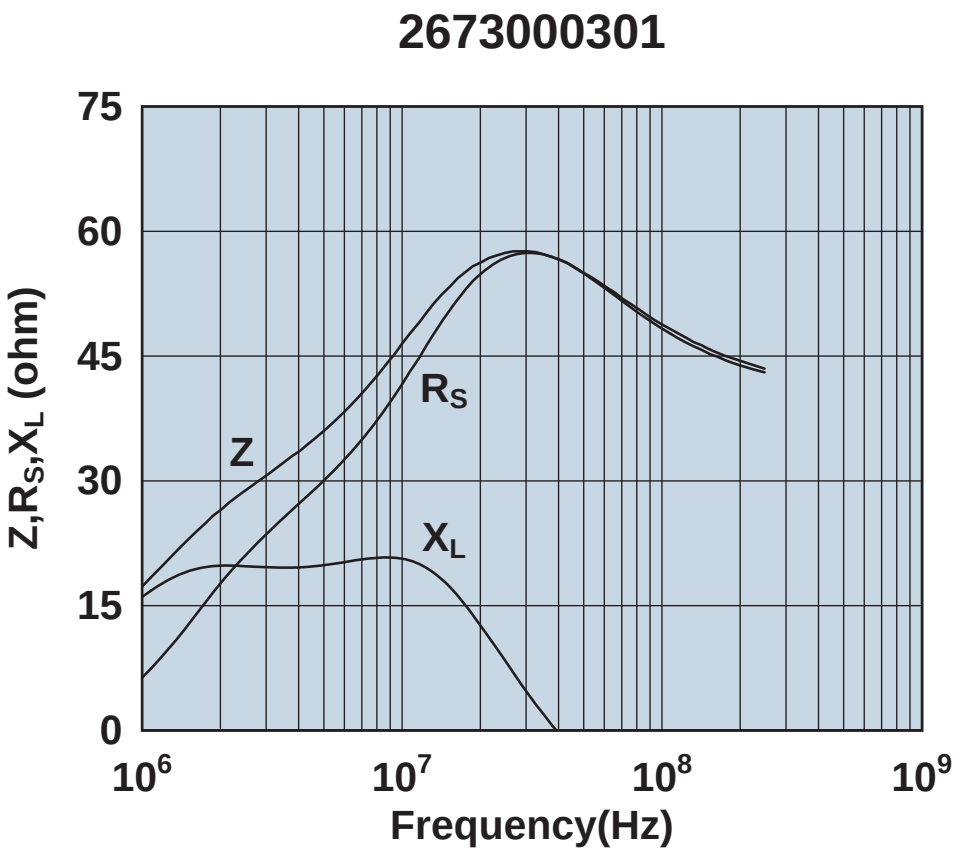
Impedance vs. frequency with dc bias.



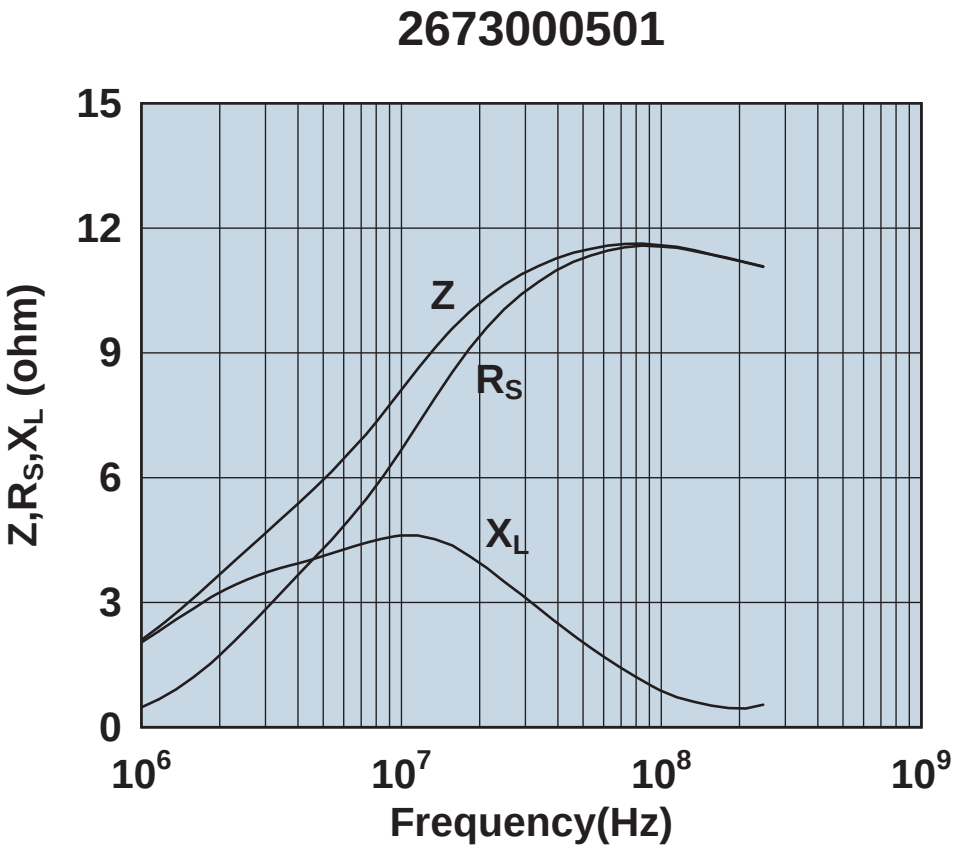
Impedance, reactance, and resistance vs. frequency.



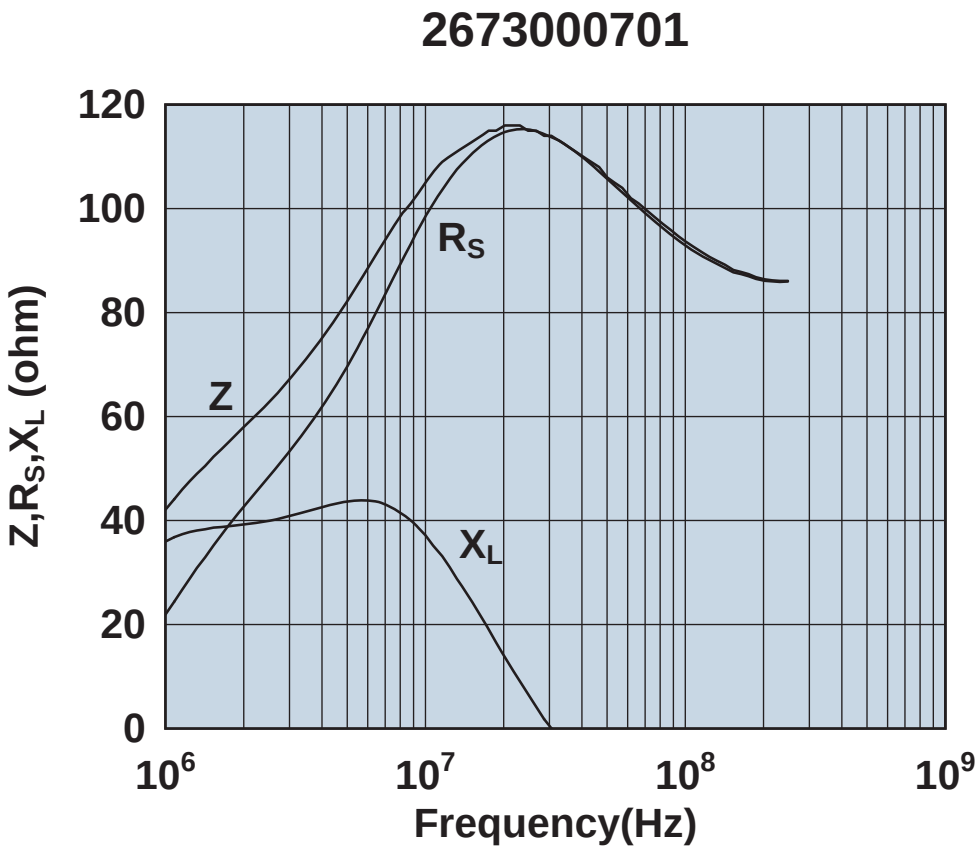
Impedance, reactance, and resistance vs. frequency.



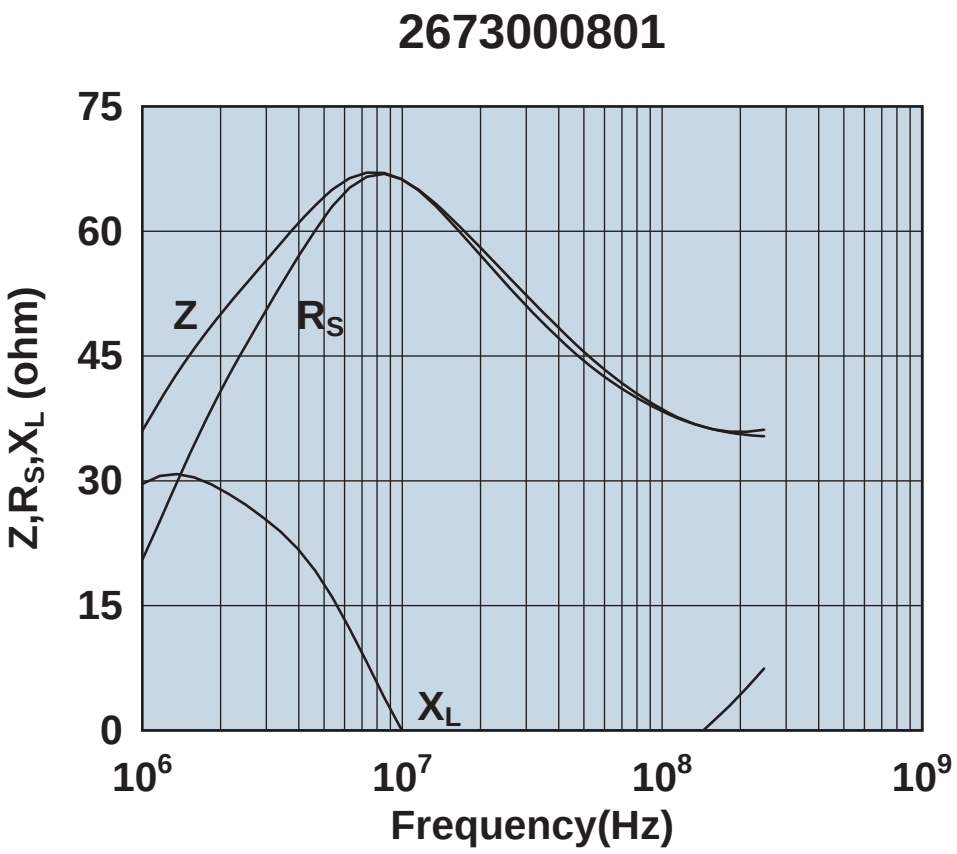
Impedance, reactance, and resistance vs. frequency.



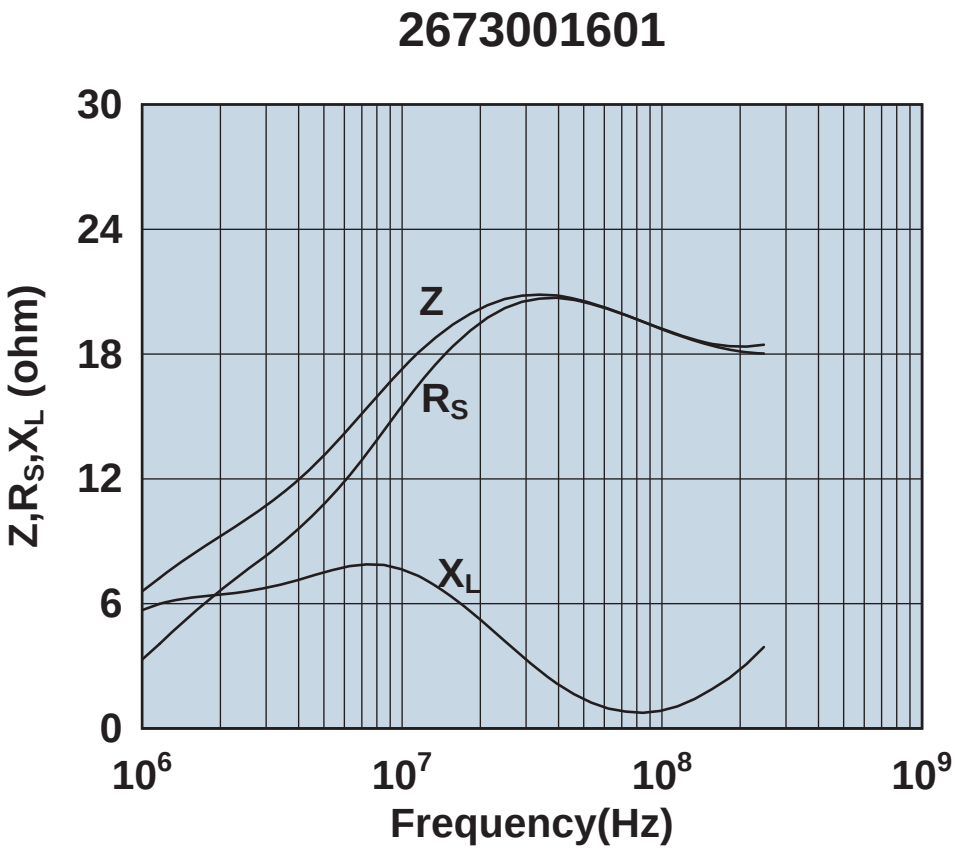
Impedance, reactance, and resistance vs. frequency.



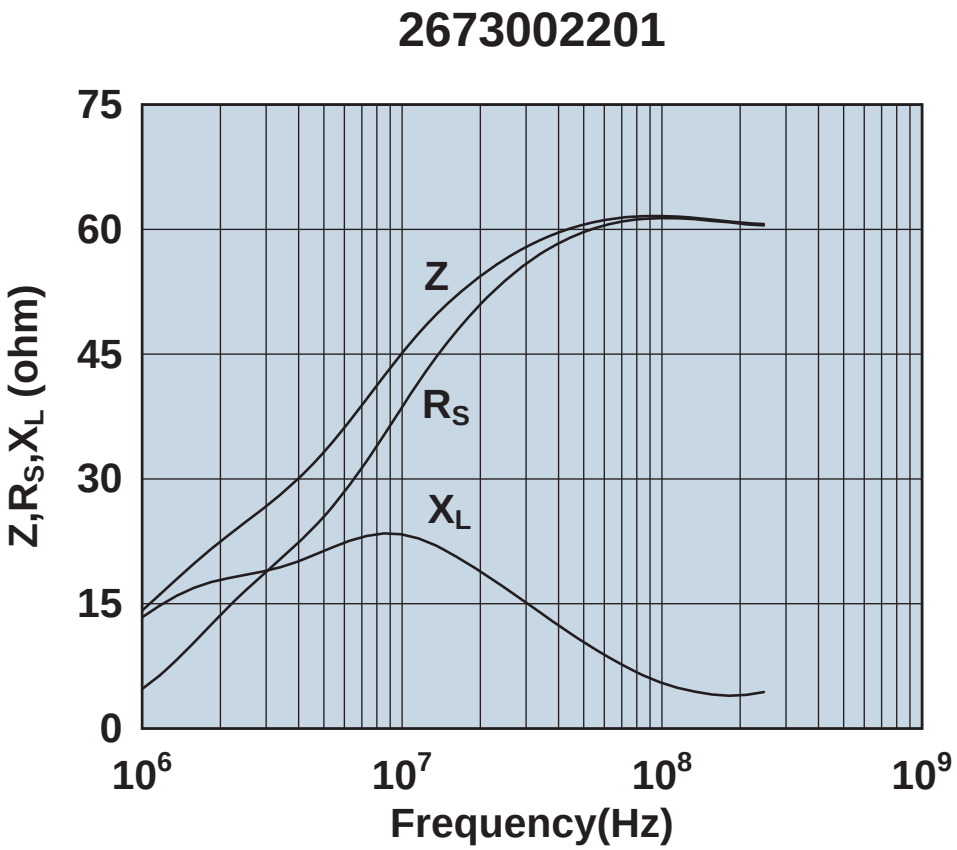
Impedance, reactance, and resistance vs. frequency.



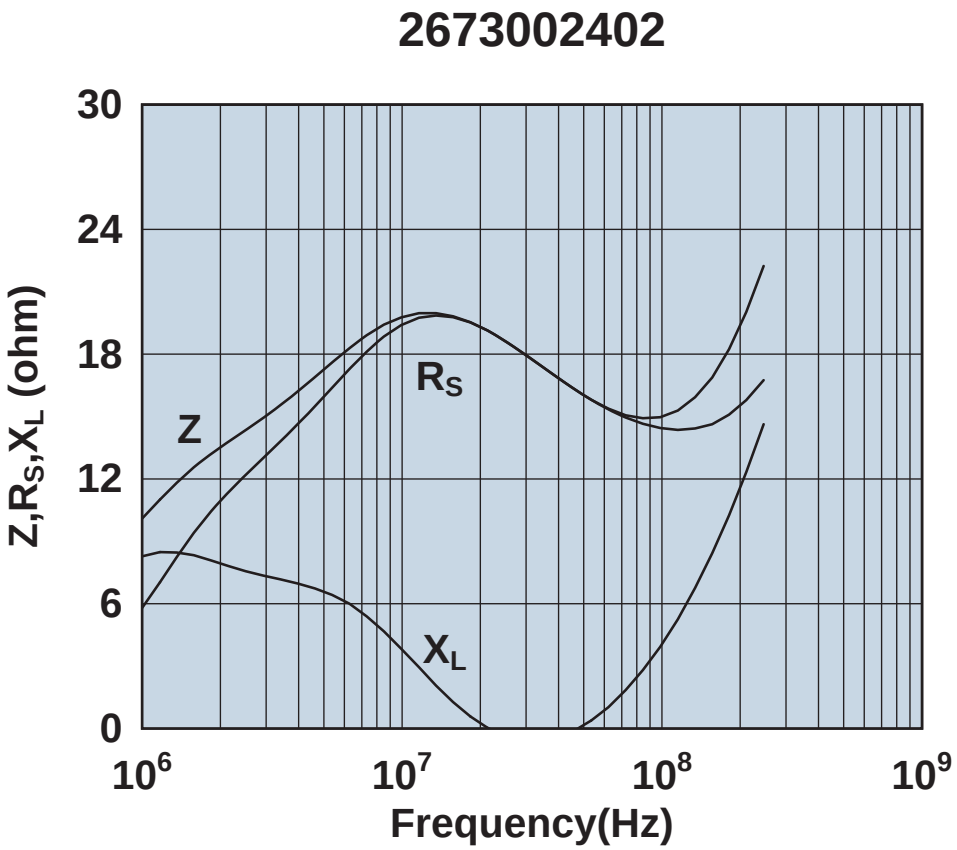
Impedance, reactance, and resistance vs. frequency.



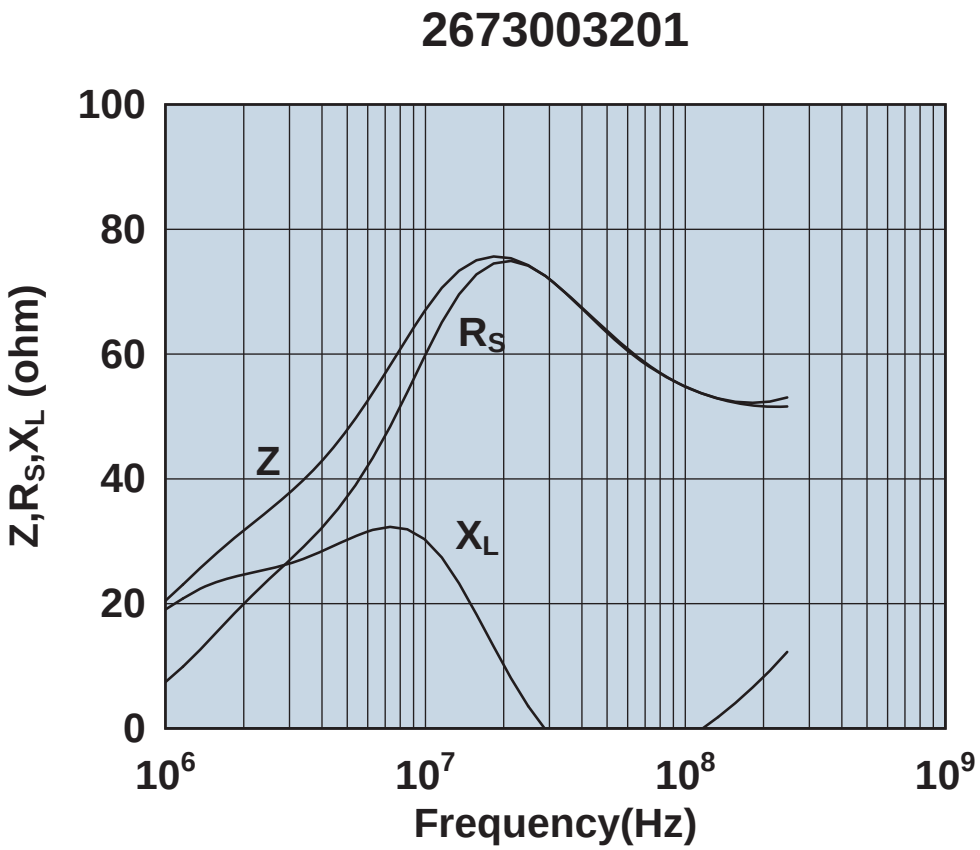
Impedance, reactance, and resistance vs. frequency.



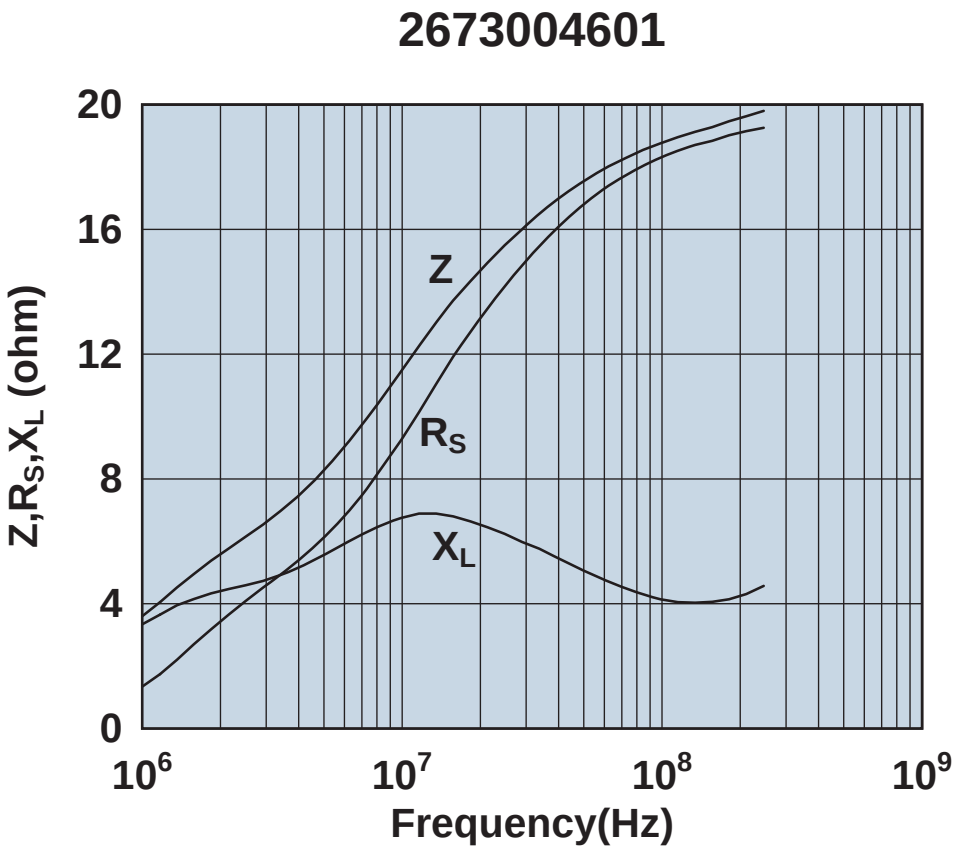
Impedance, reactance, and resistance vs. frequency.



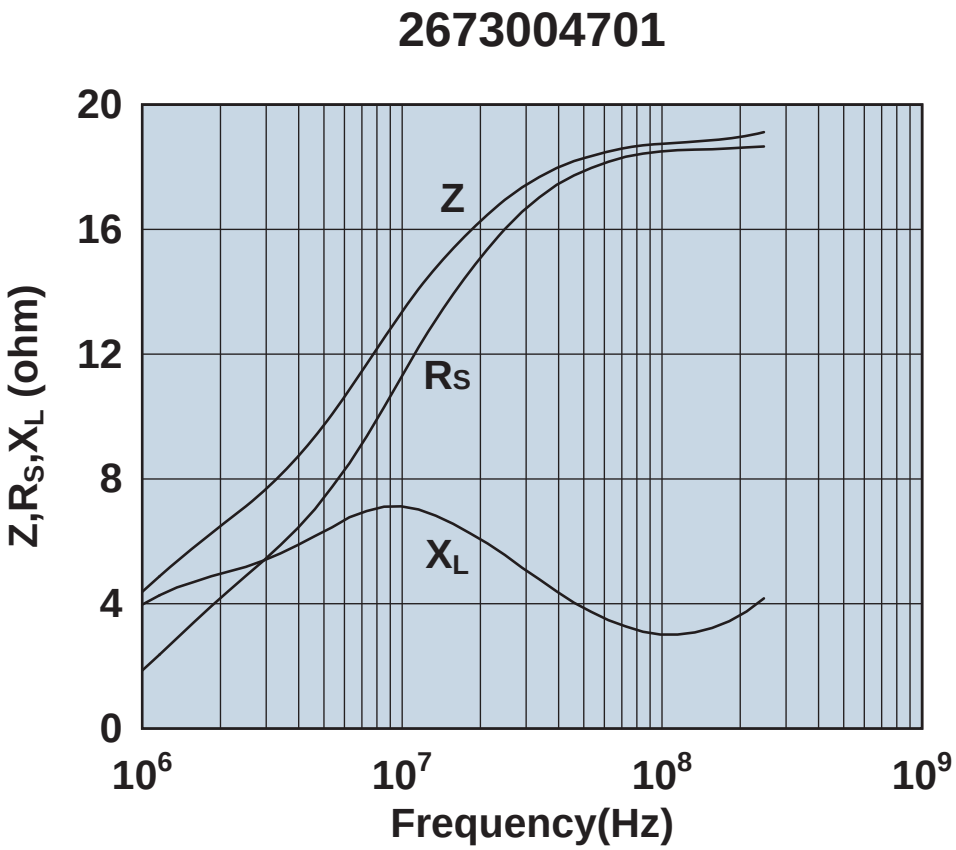
Impedance, reactance, and resistance vs. frequency.



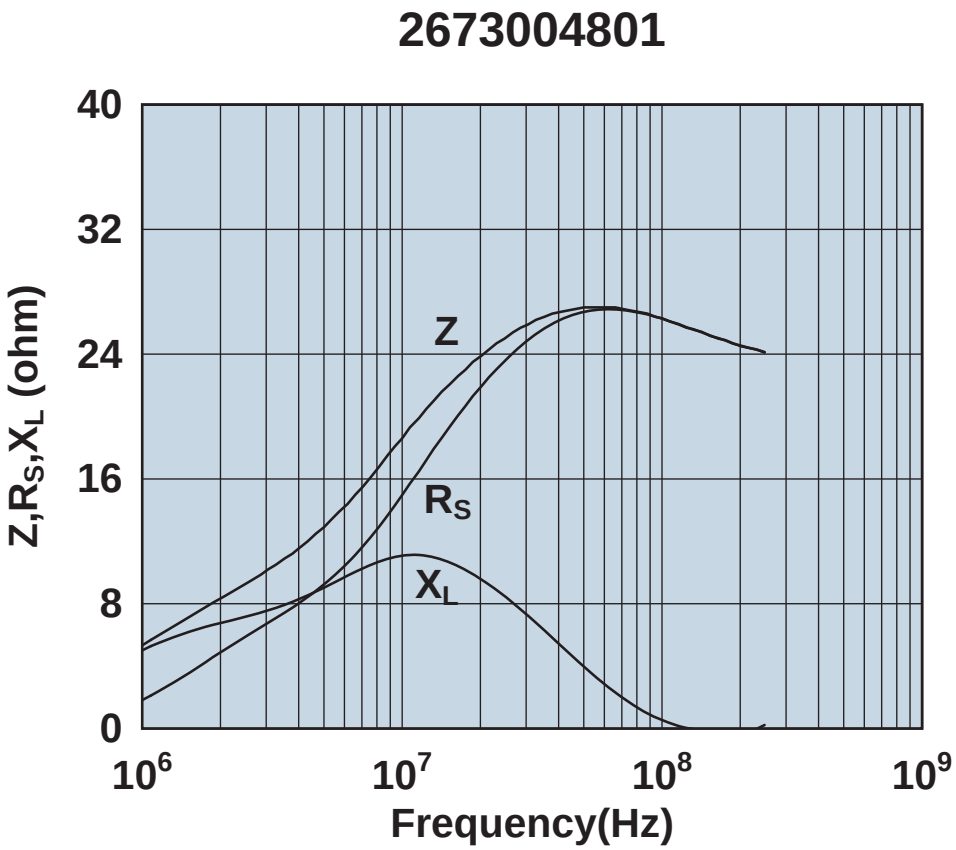
Impedance, reactance, and resistance vs. frequency.



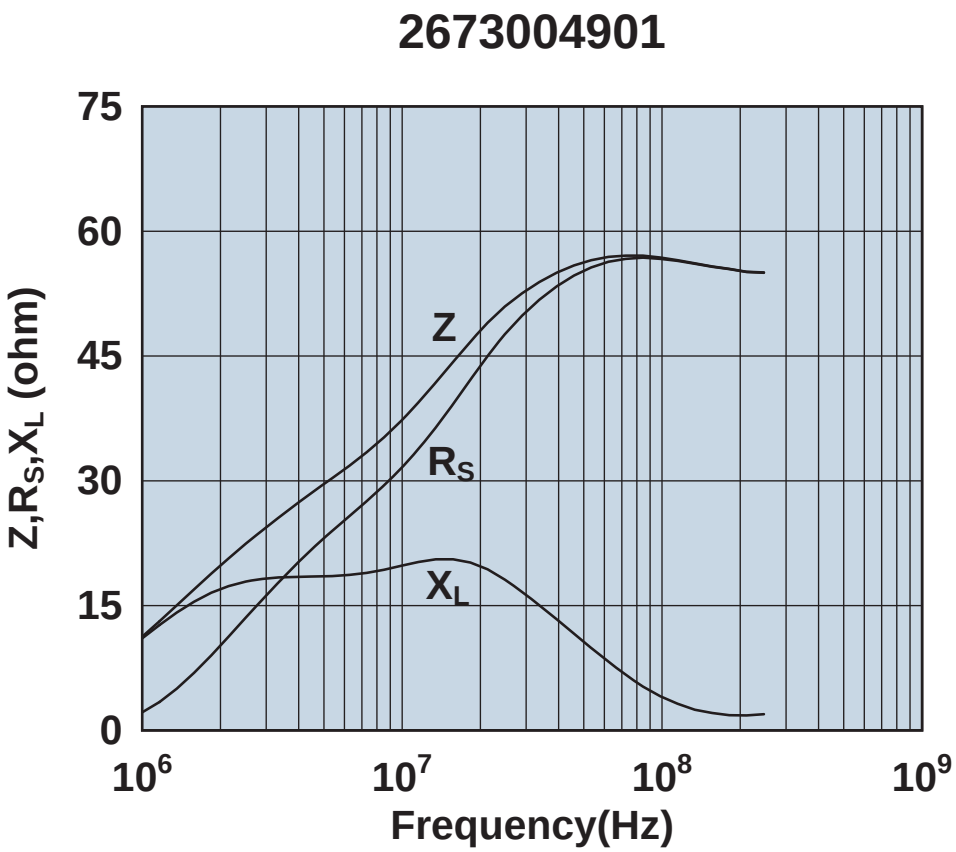
Impedance, reactance, and resistance vs. frequency.



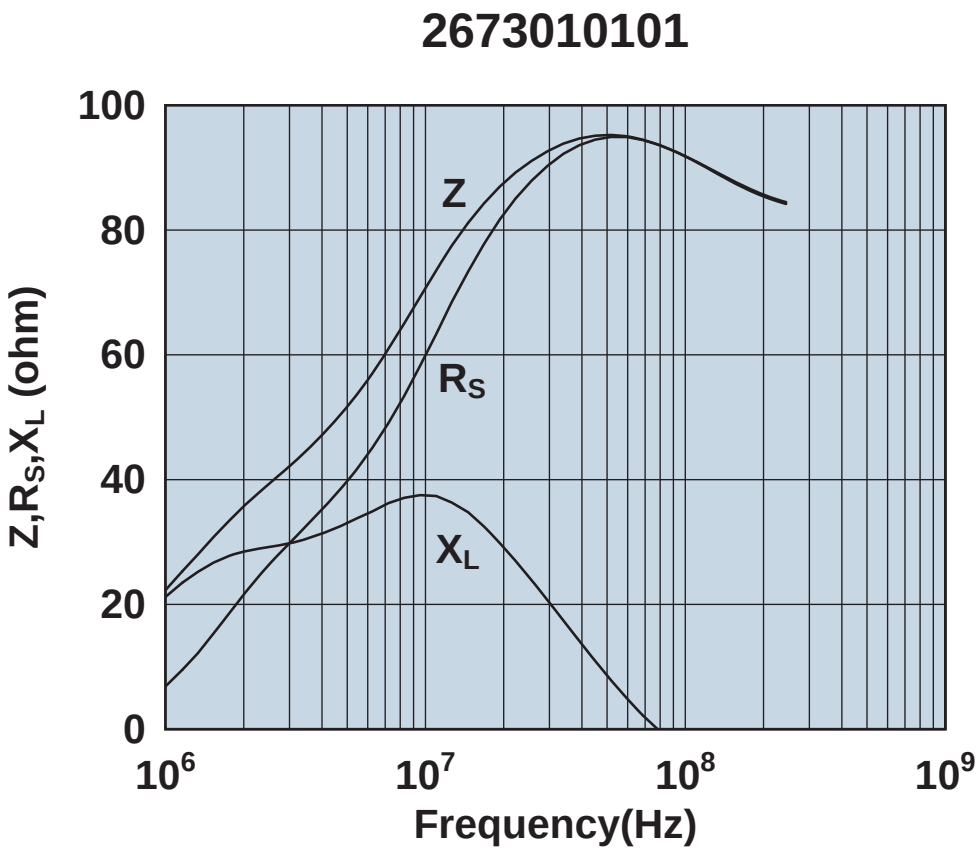
Impedance, reactance, and resistance vs. frequency.



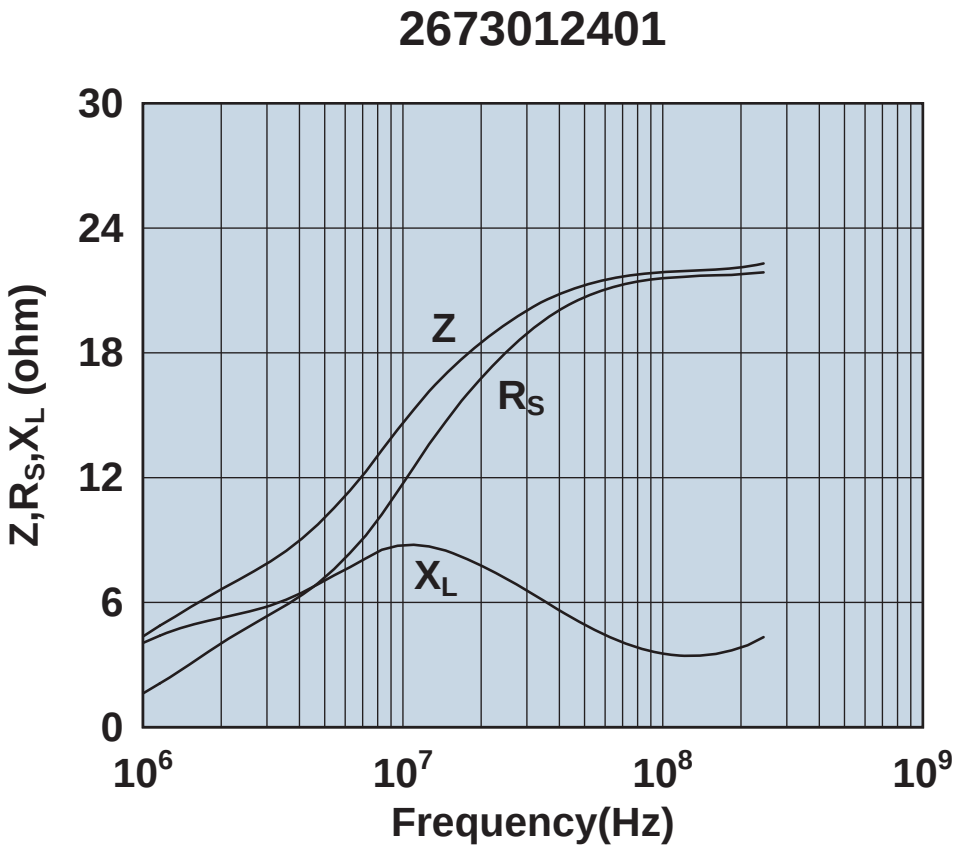
Impedance, reactance, and resistance vs. frequency.



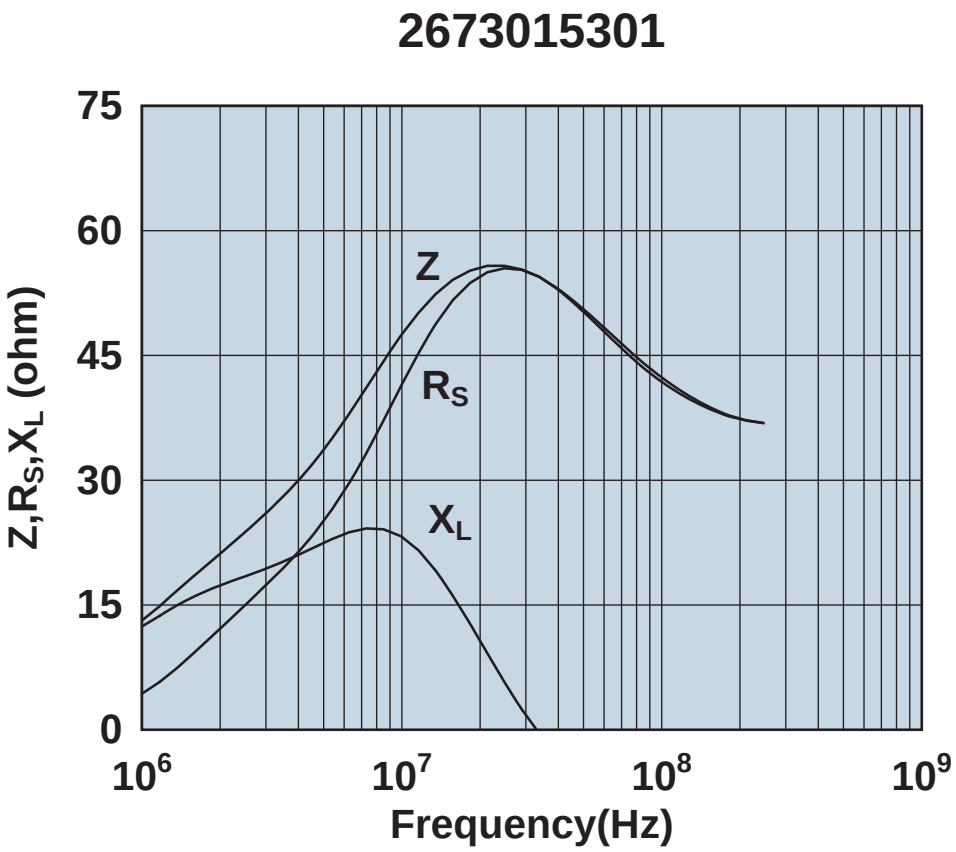
Impedance, reactance, and resistance vs. frequency.



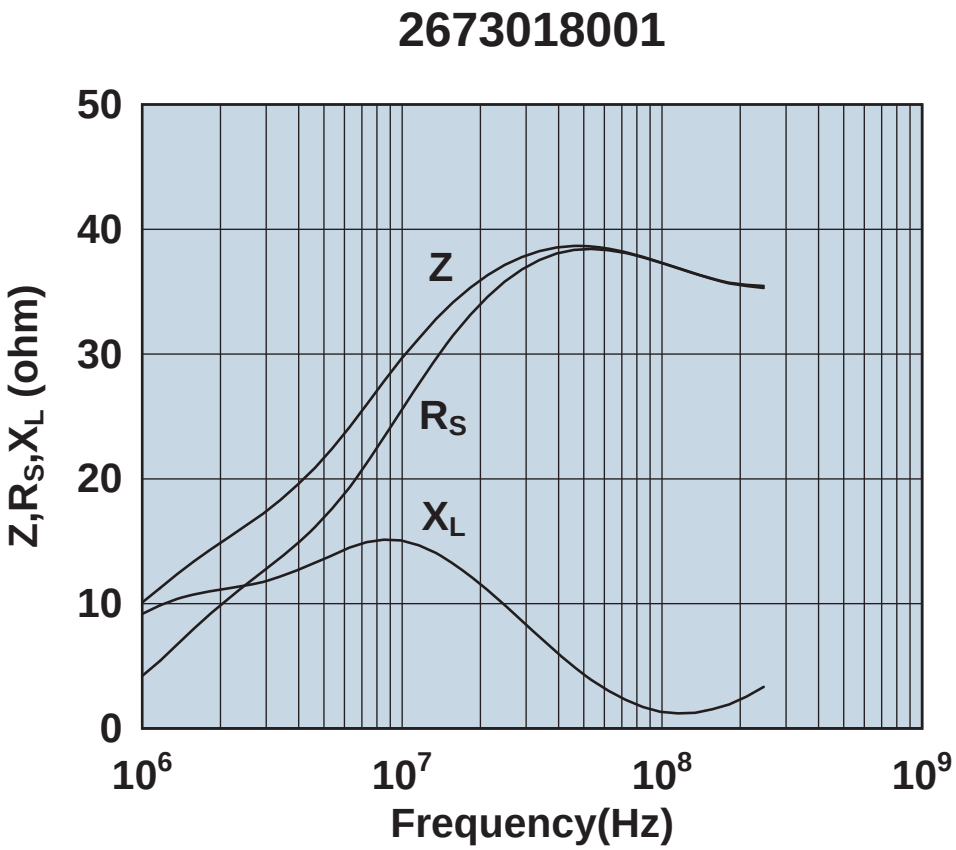
Impedance, reactance, and resistance vs. frequency.



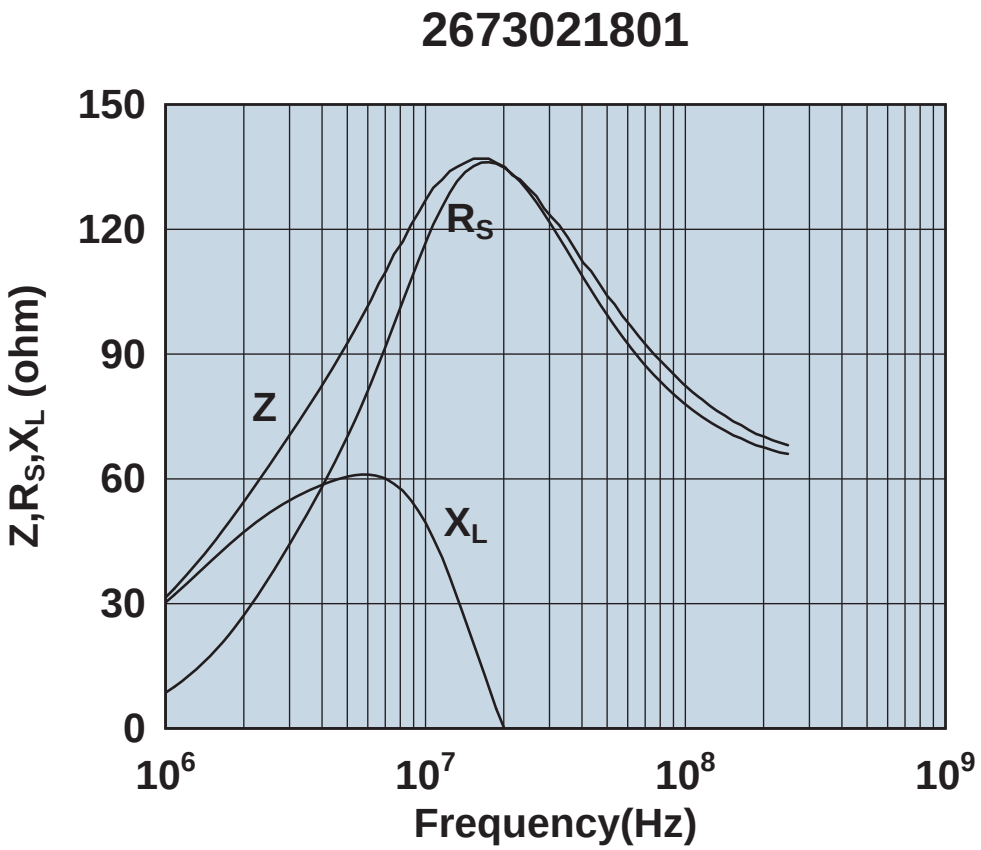
Impedance, reactance, and resistance vs. frequency.



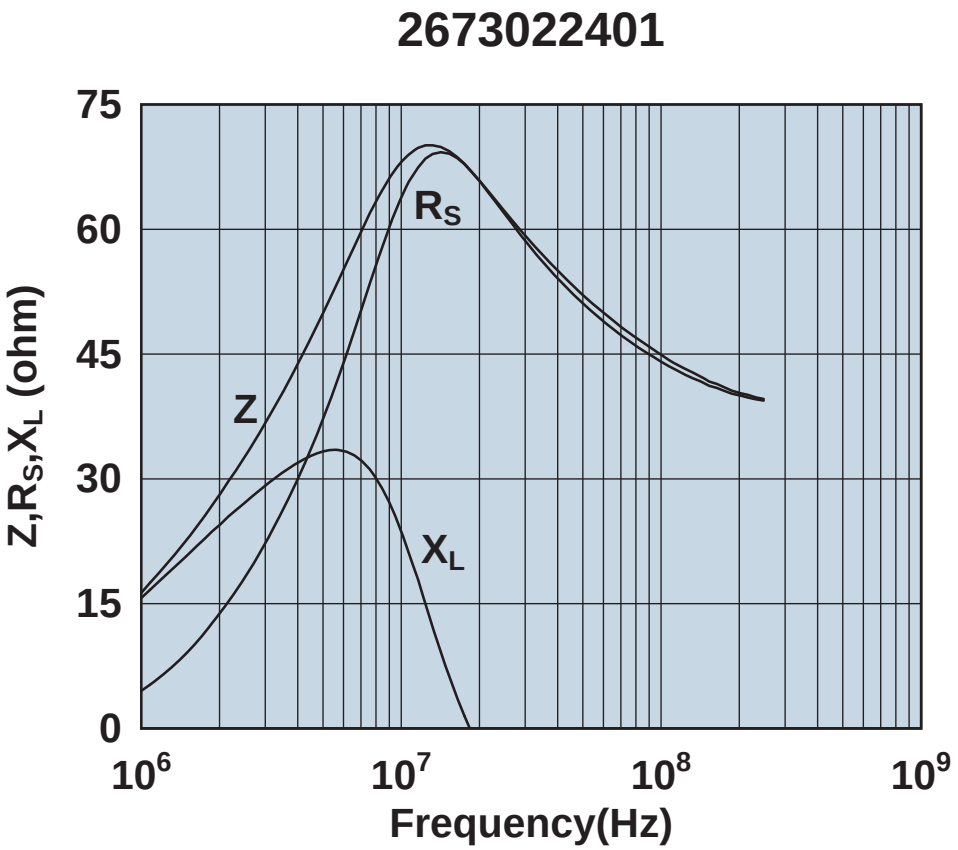
Impedance, reactance, and resistance vs. frequency.



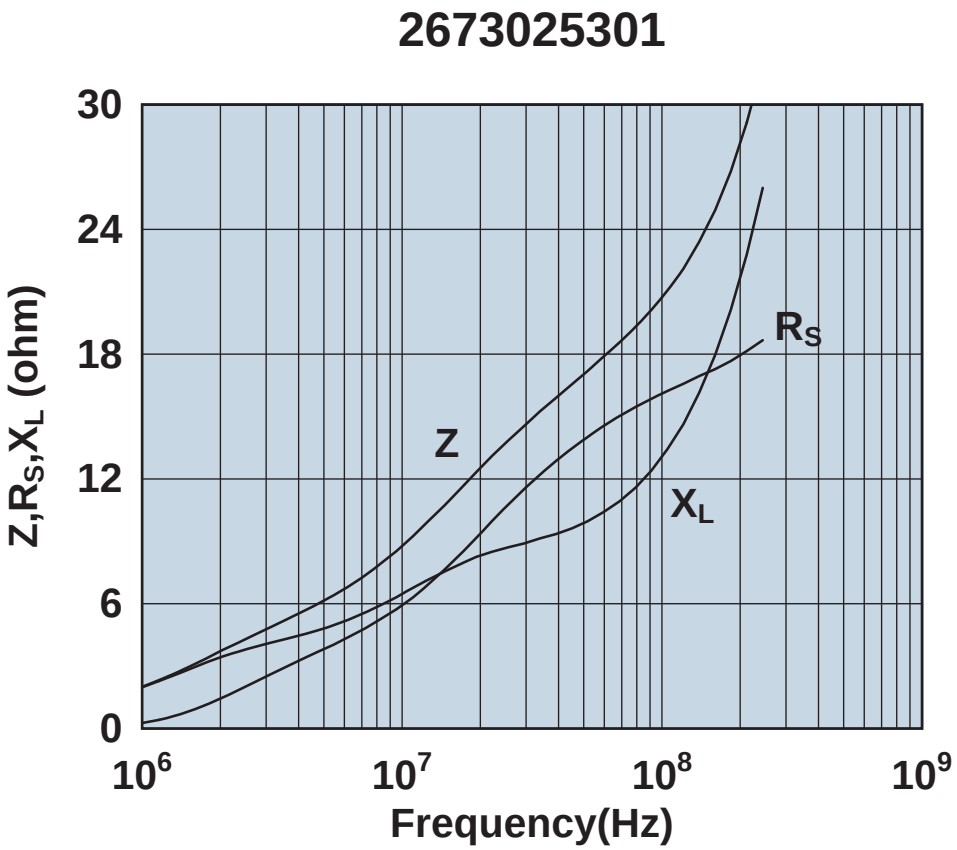
Impedance, reactance, and resistance vs. frequency.



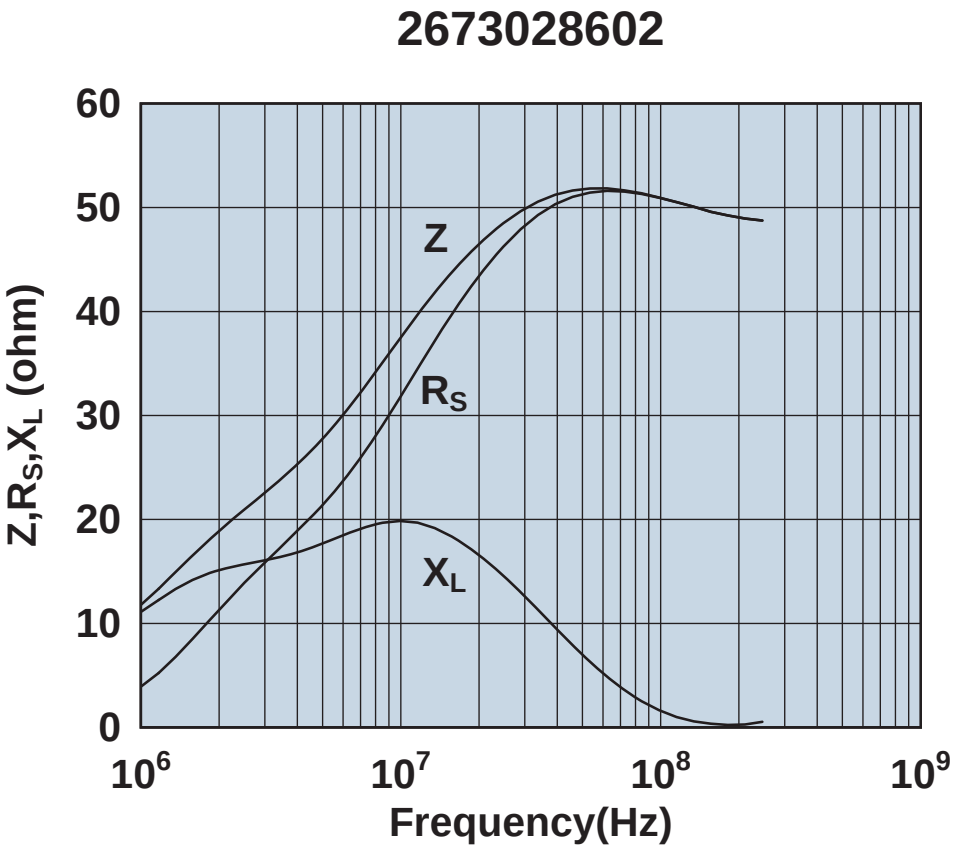
Impedance, reactance, and resistance vs. frequency.



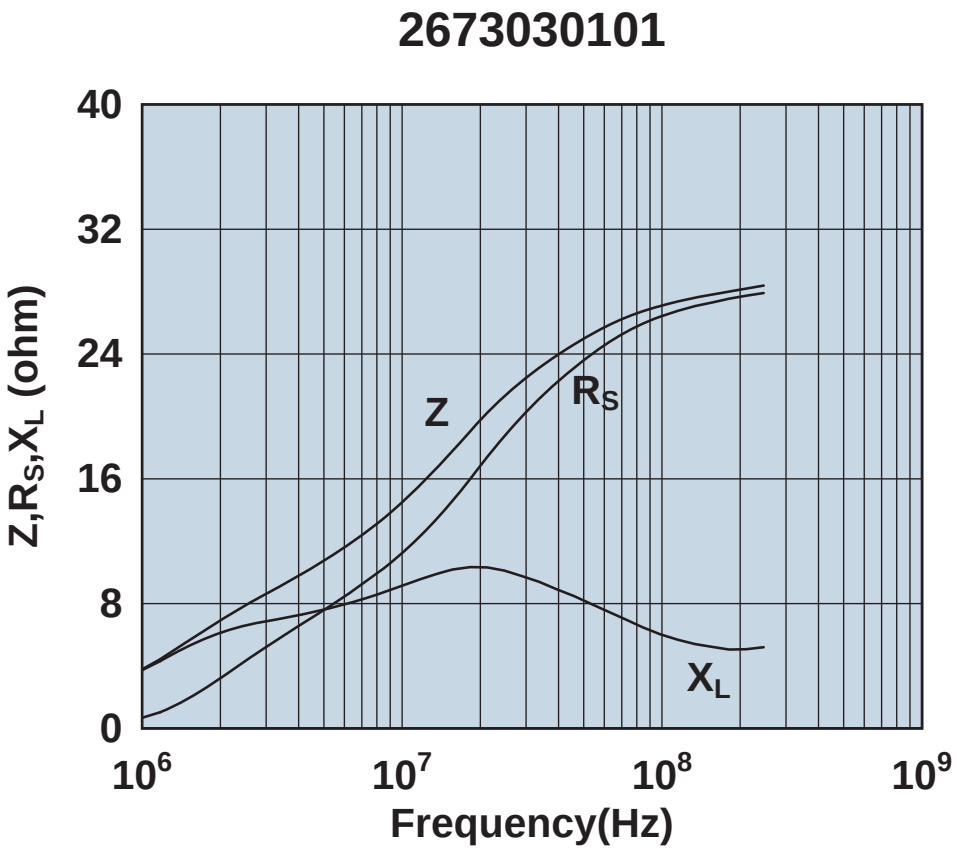
Impedance, reactance, and resistance vs. frequency.



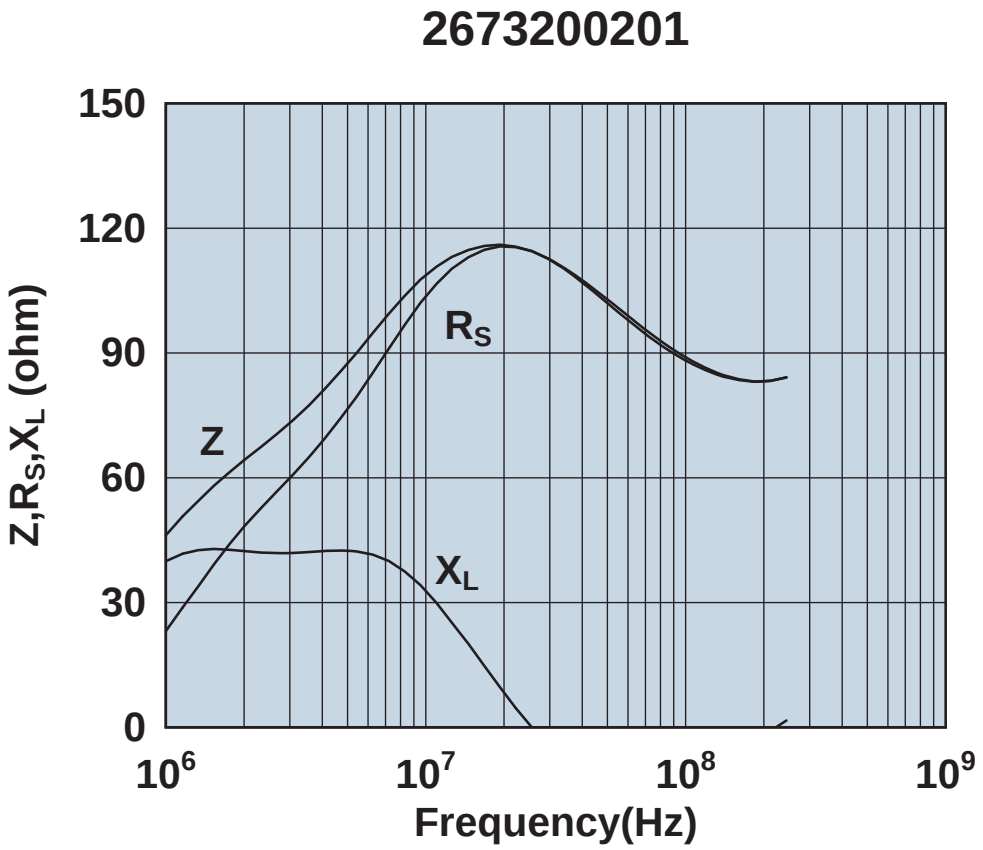
Impedance, reactance, and resistance vs. frequency.



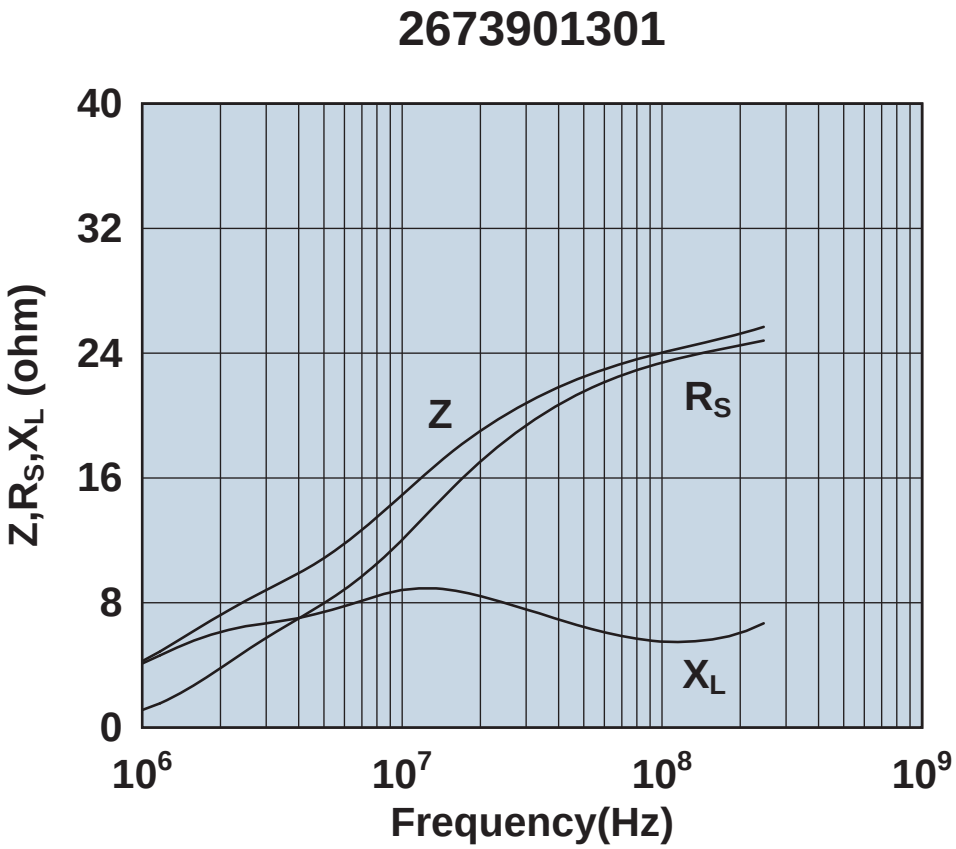
Impedance, reactance, and resistance vs. frequency.



Impedance, reactance, and resistance vs. frequency.

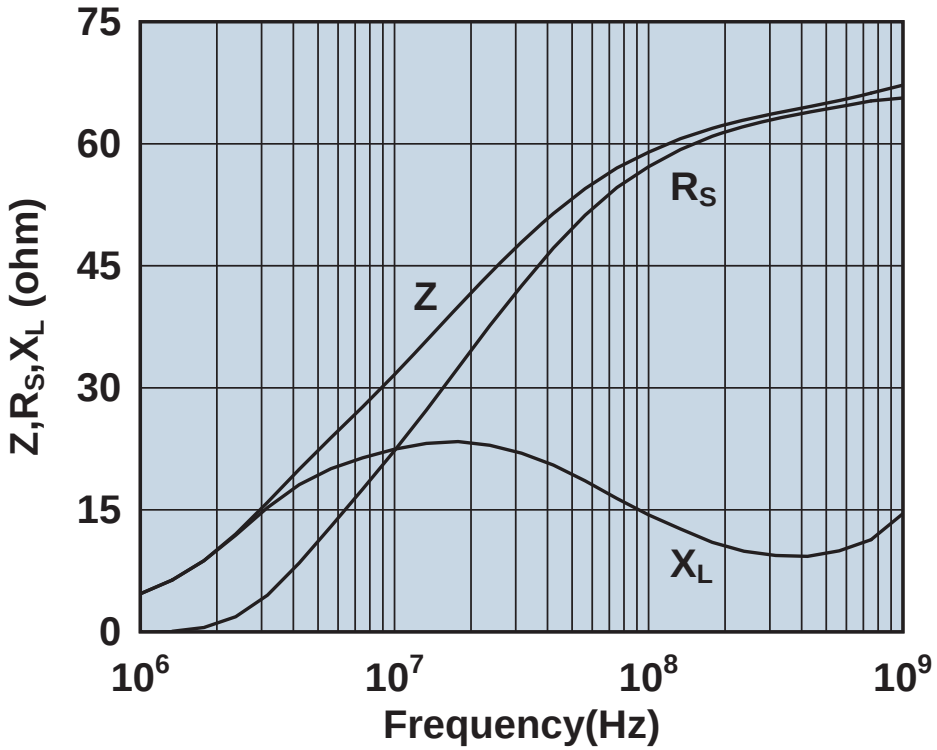


Impedance, reactance, and resistance vs. frequency.

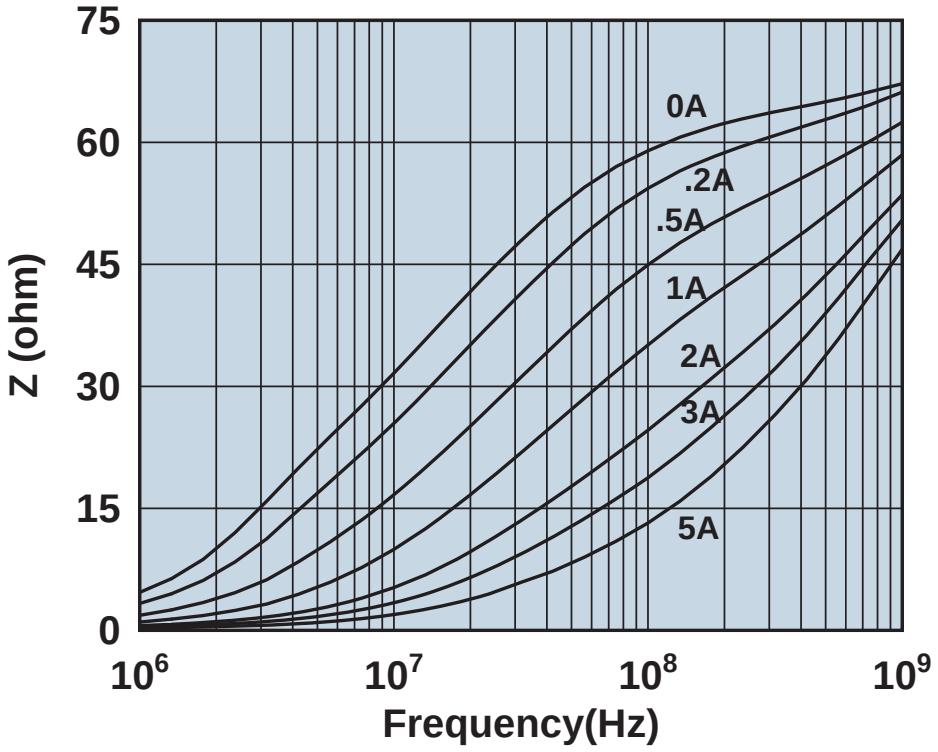


Impedance, reactance, and resistance vs. frequency.

2743001112

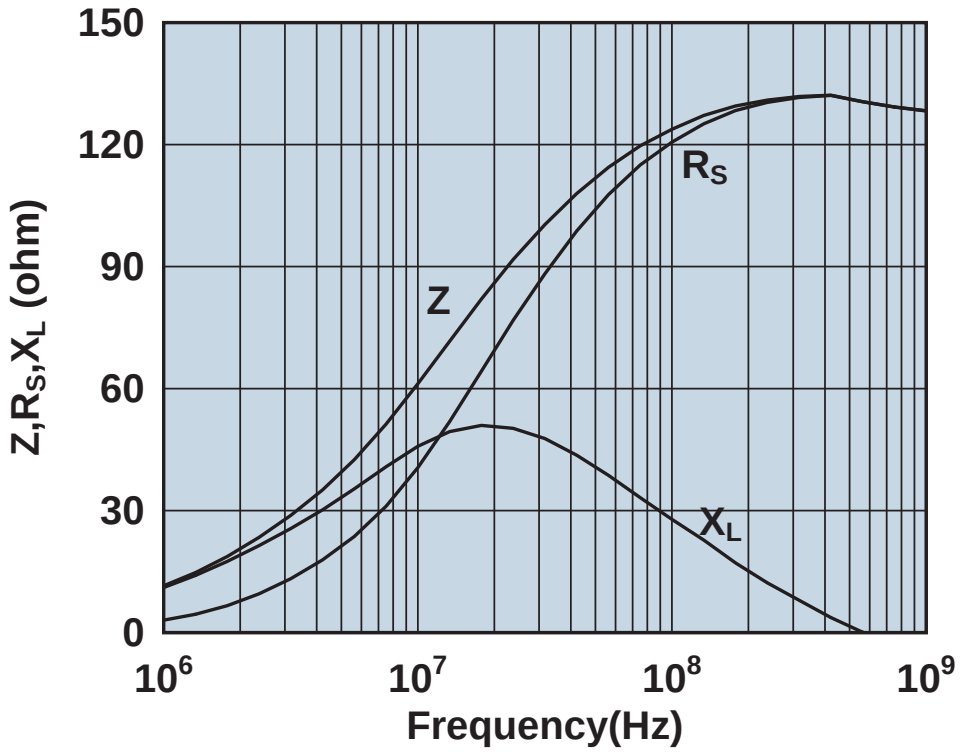


Impedance, reactance, and resistance vs. frequency.

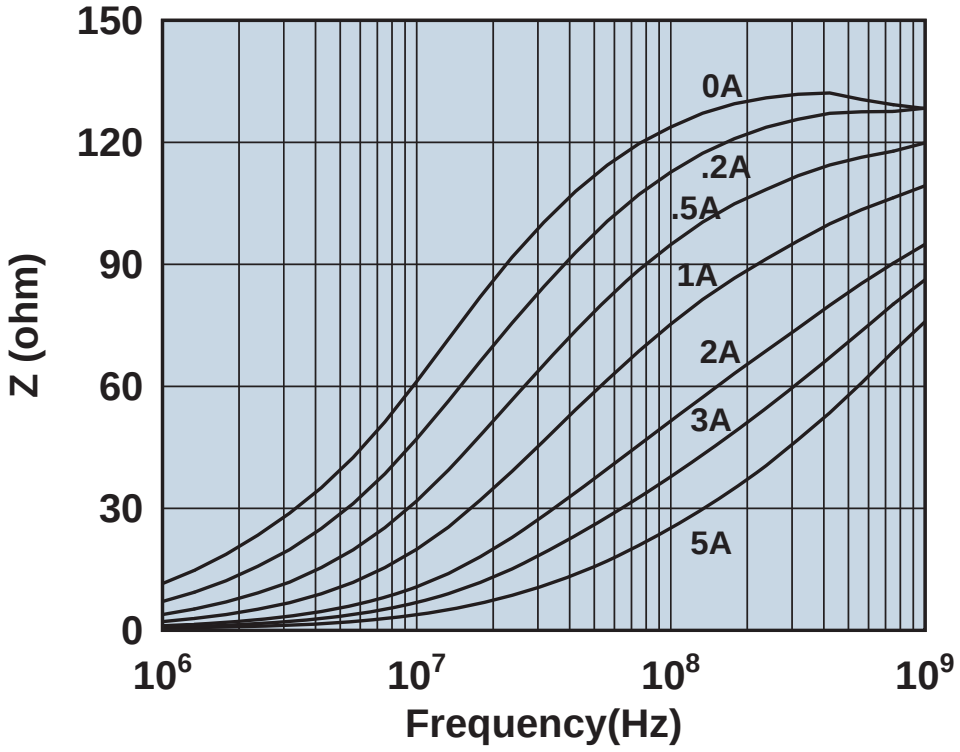


Impedance vs. frequency with dc bias.

2743002112

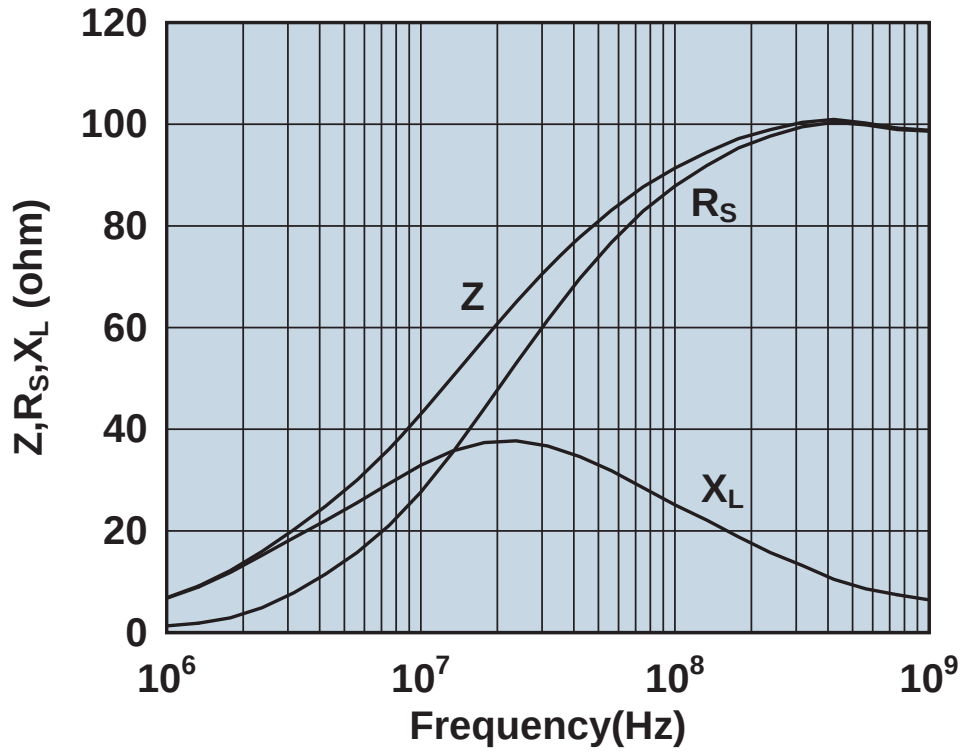


Impedance, reactance, and resistance vs. frequency.

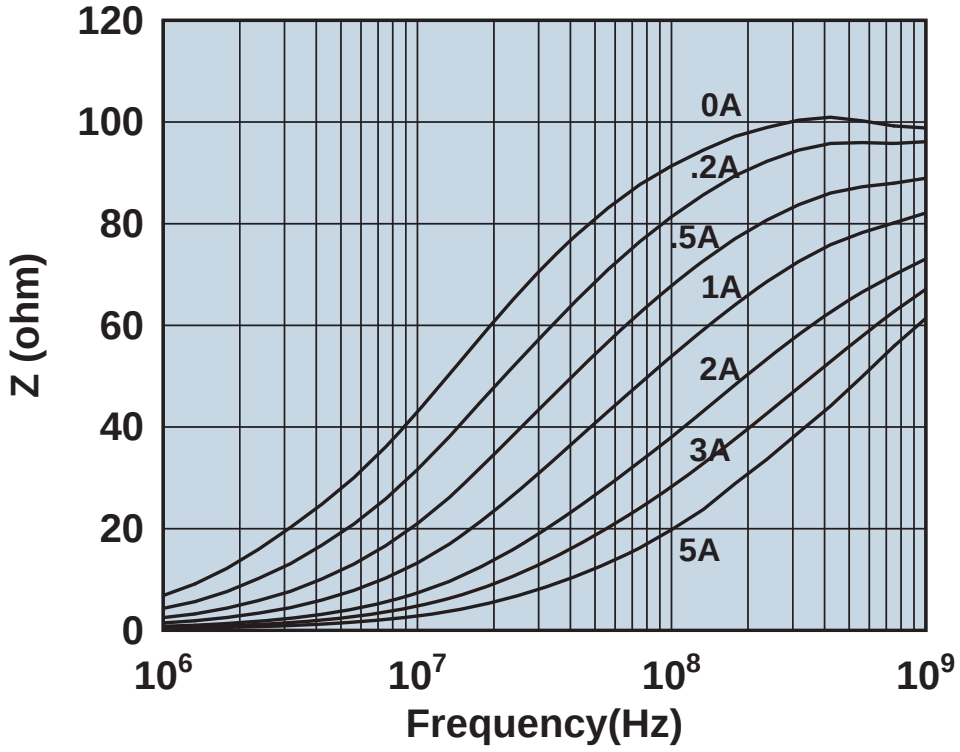


Impedance vs. frequency with dc bias.

2743003112

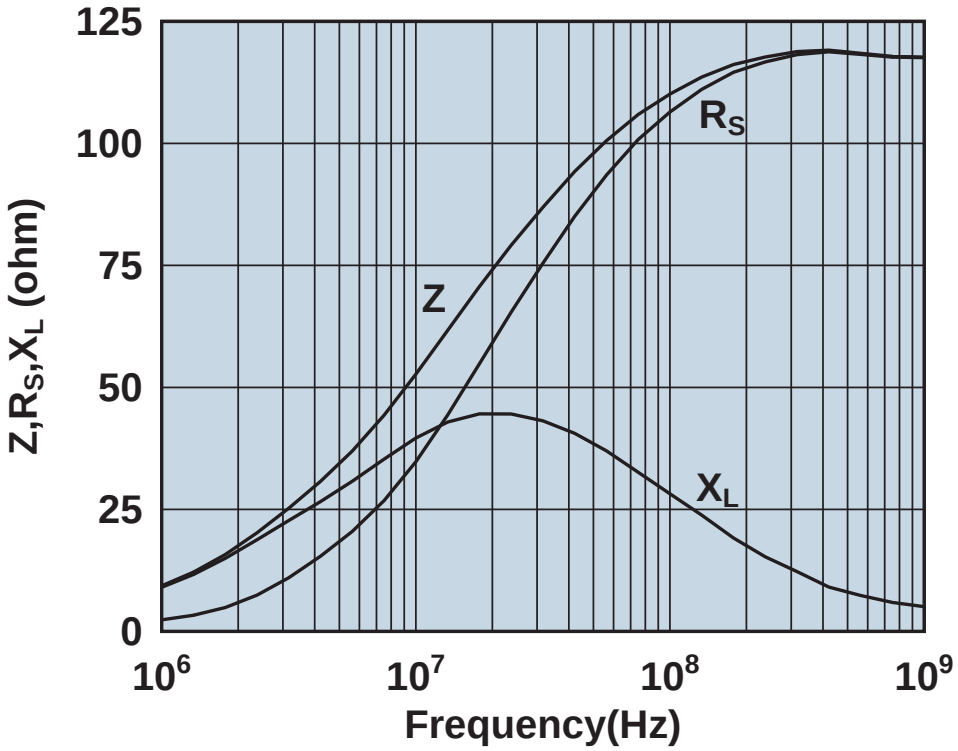


Impedance, reactance, and resistance vs. frequency.

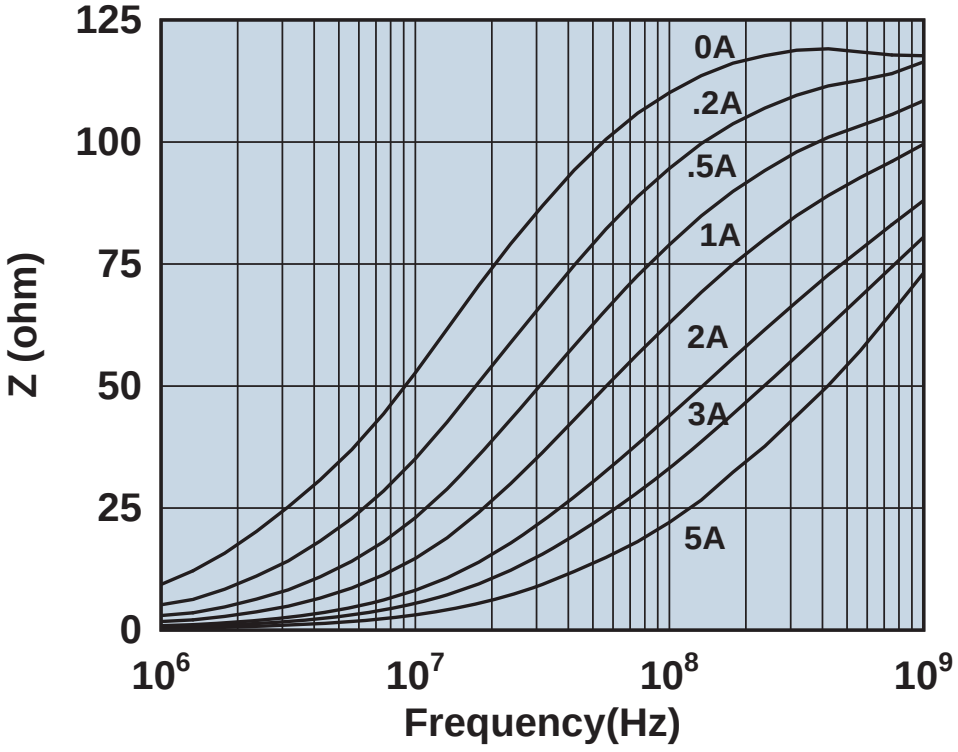


Impedance vs. frequency with dc bias.

2743004112

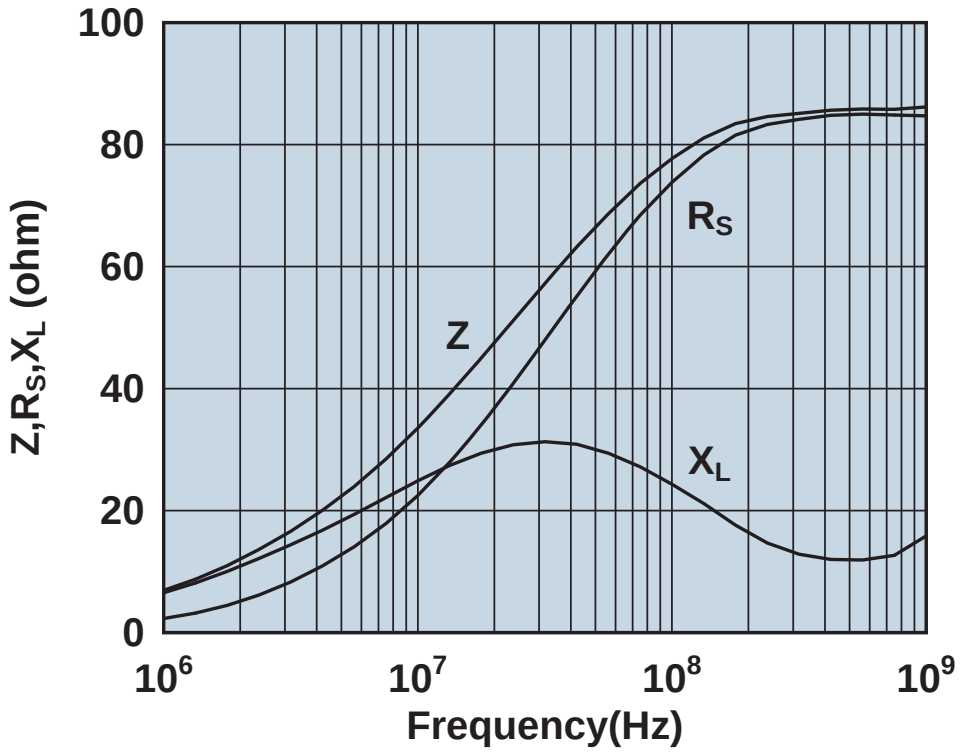


Impedance, reactance, and resistance vs. frequency.

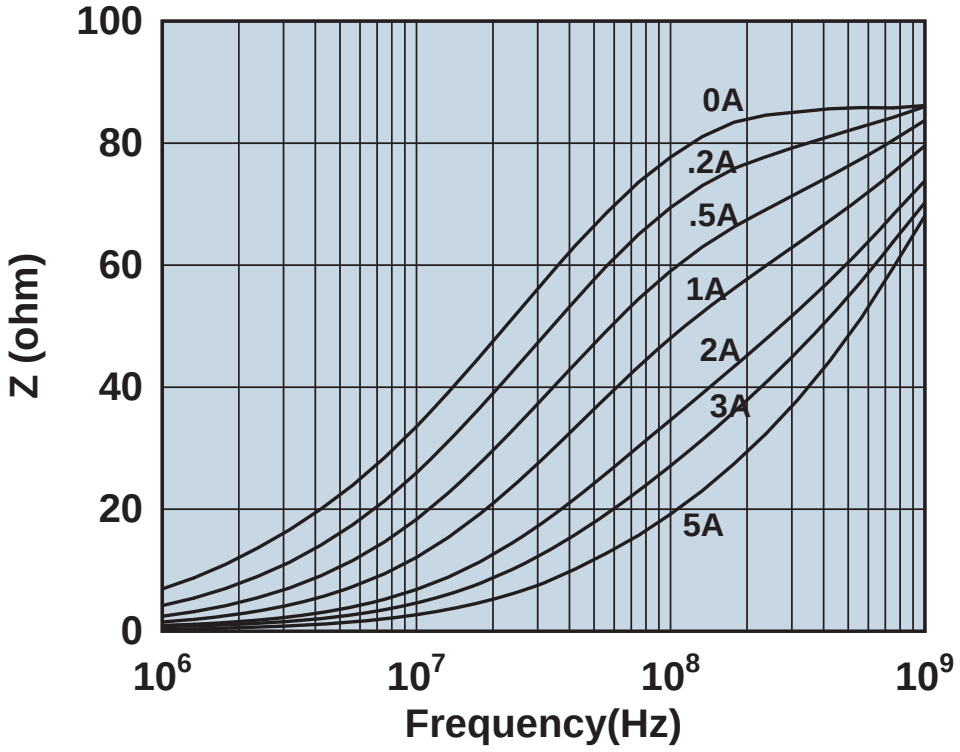


Impedance vs. frequency with dc bias.

2743005112

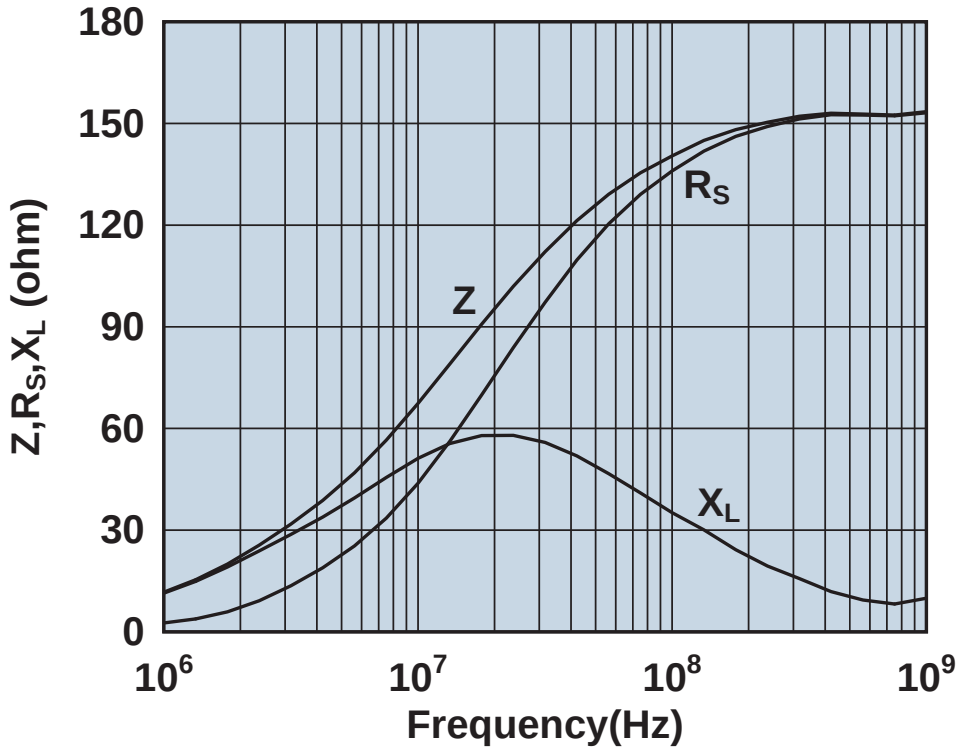


Impedance, reactance, and resistance vs. frequency.

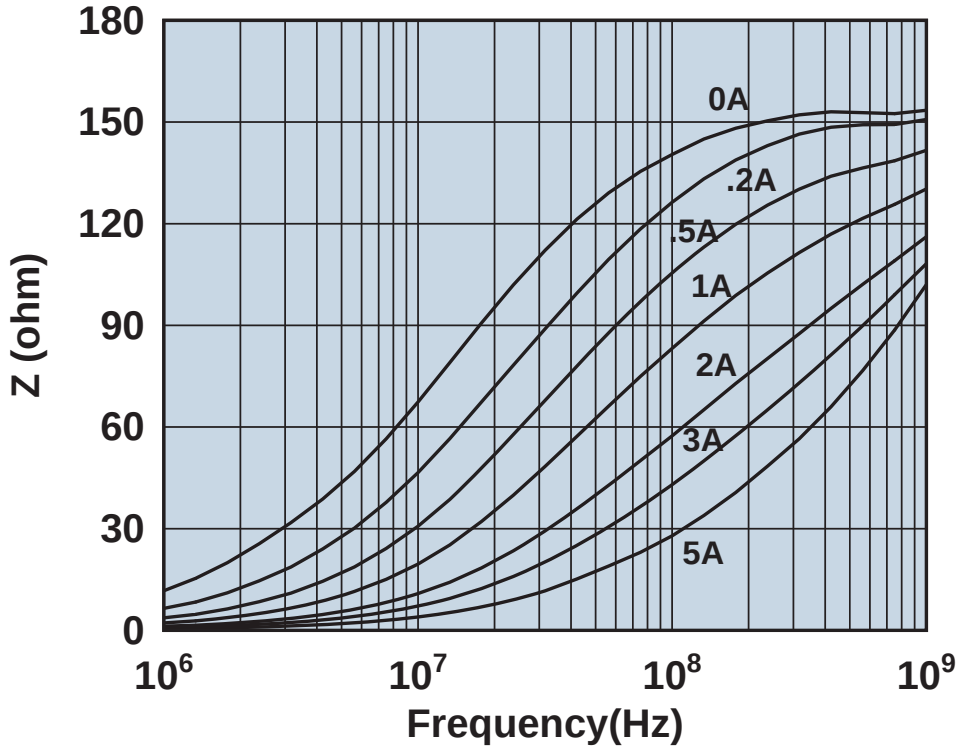


Impedance vs. frequency with dc bias.

2743007112

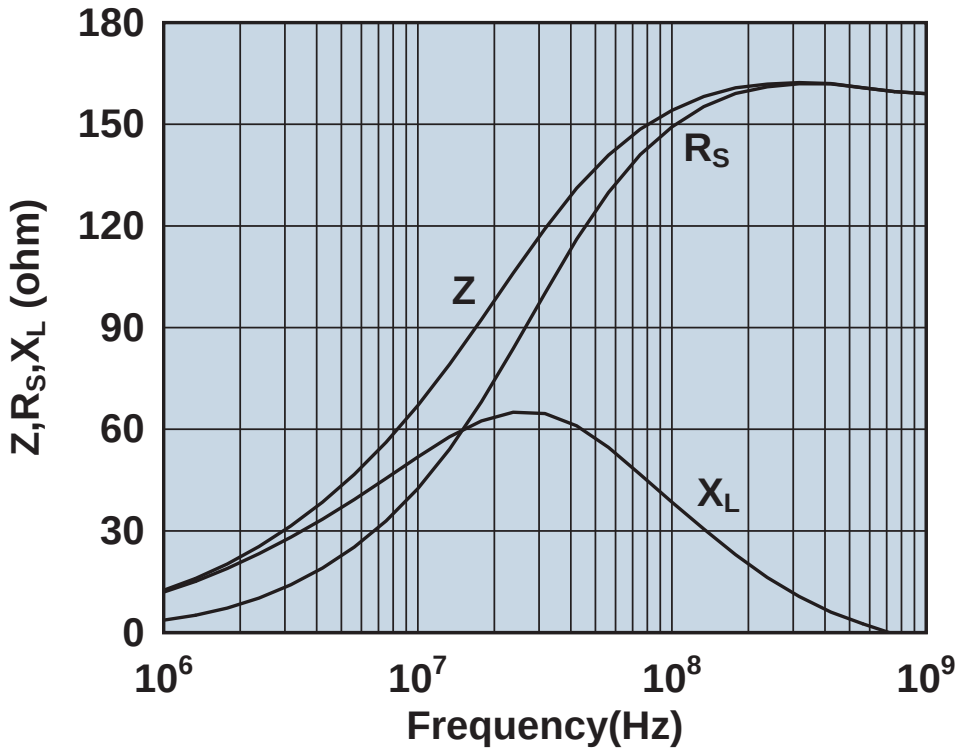


Impedance, reactance, and resistance vs. frequency.

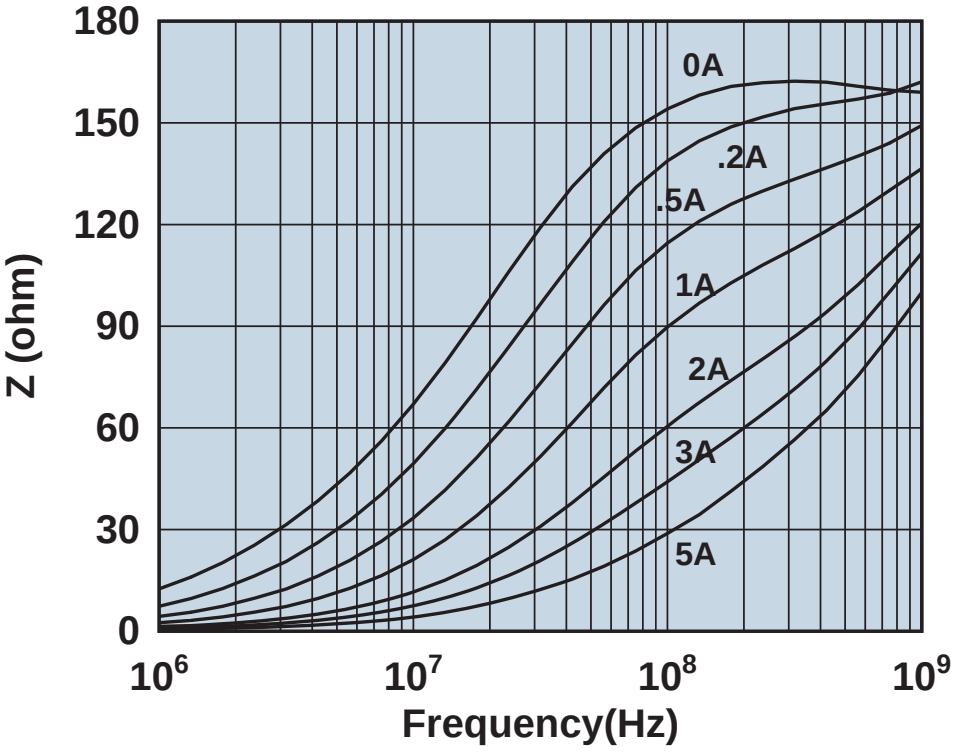


Impedance vs. frequency with dc bias.

2743008112

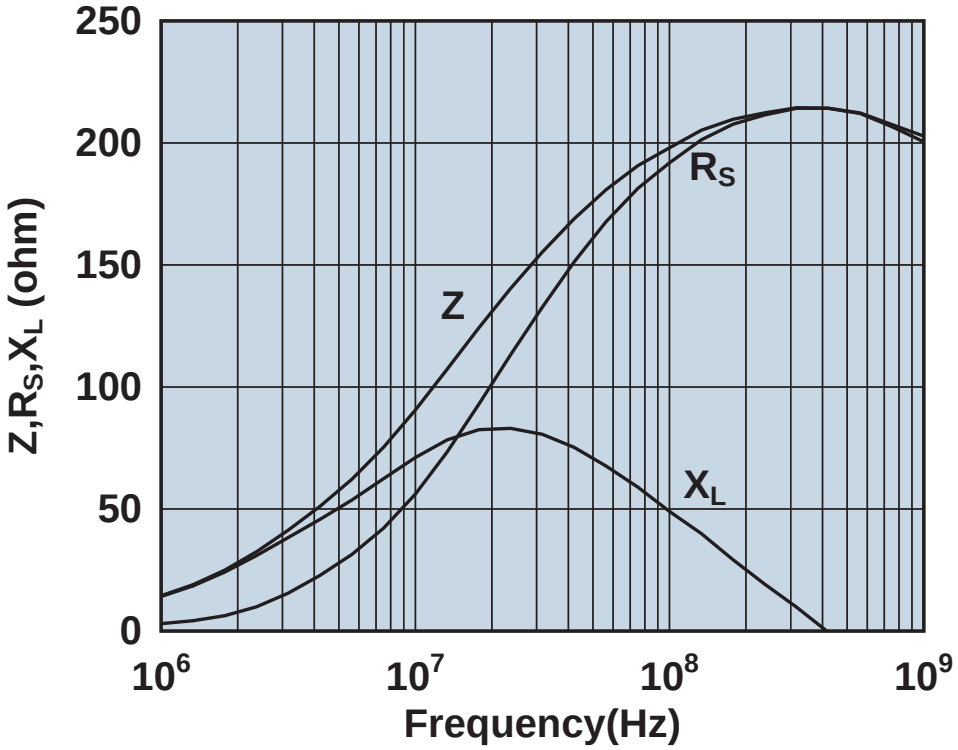


Impedance, reactance, and resistance vs. frequency.

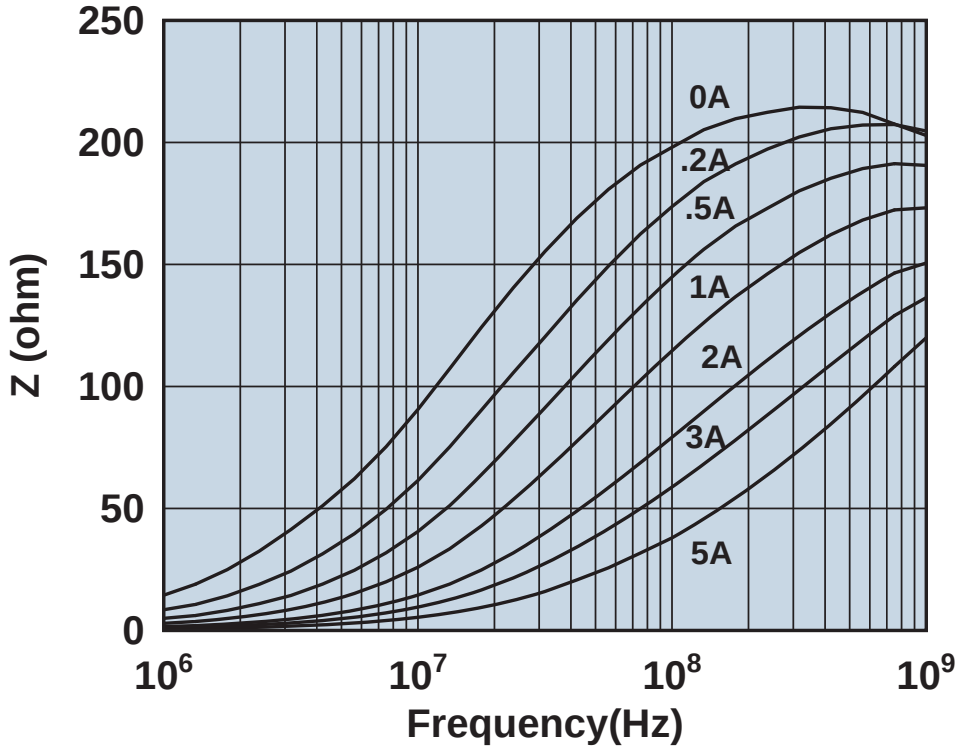


Impedance vs. frequency with dc bias.

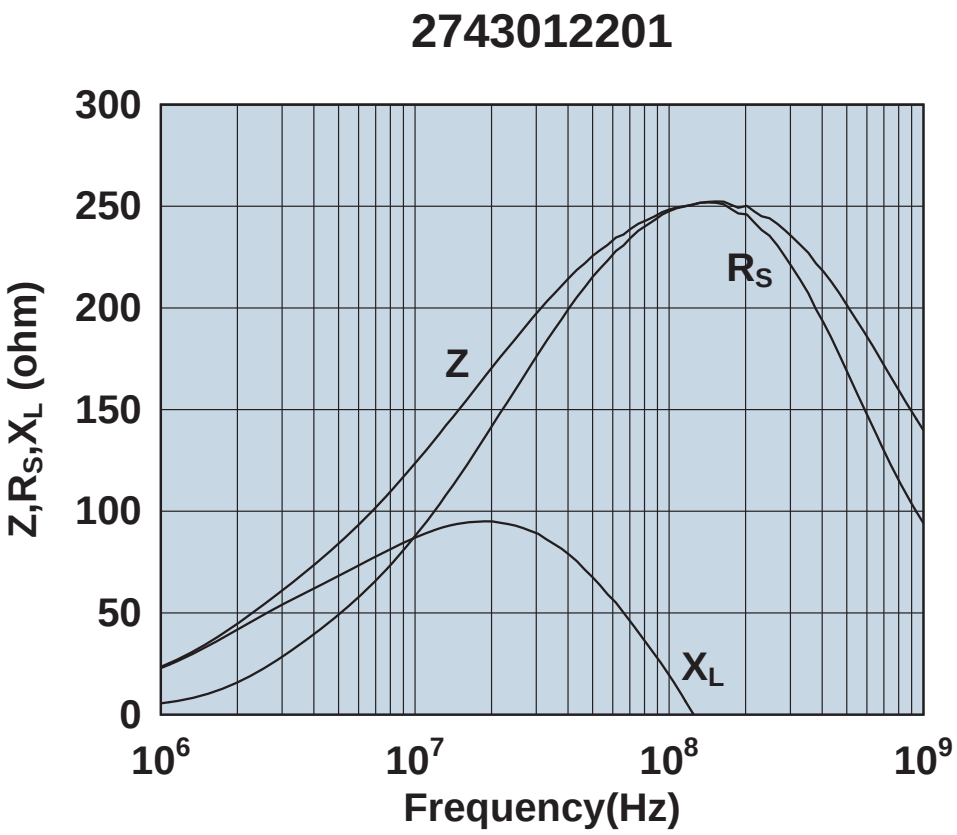
2743009112



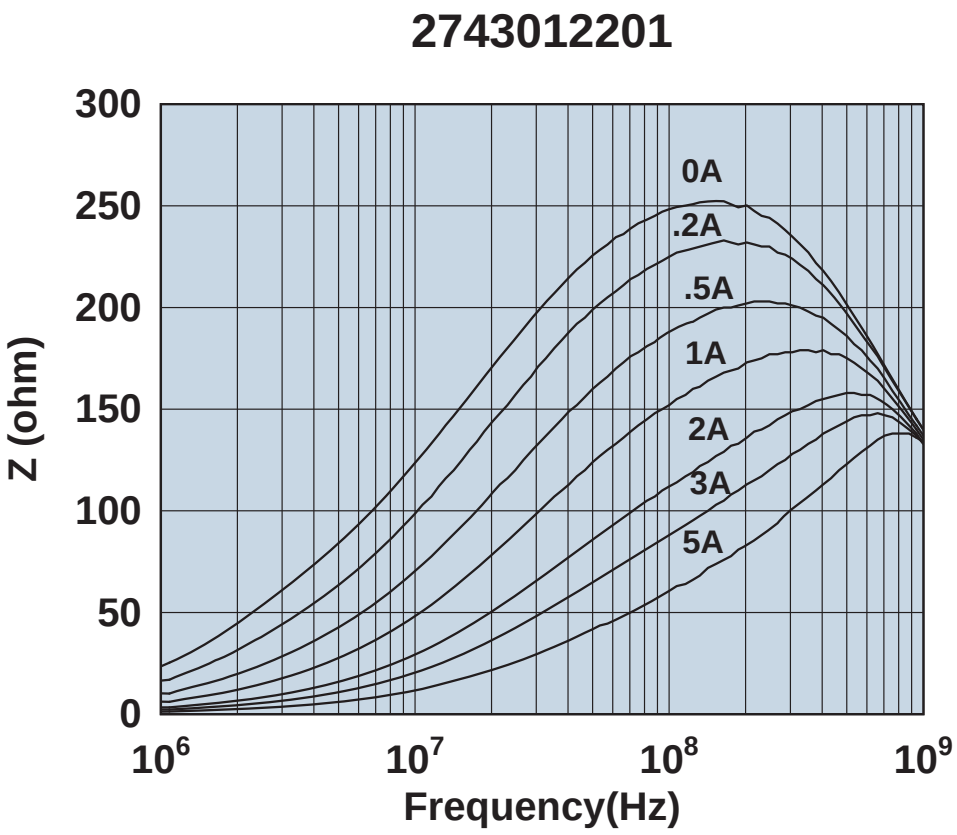
Impedance, reactance, and resistance vs. frequency.



Impedance vs. frequency with dc bias.

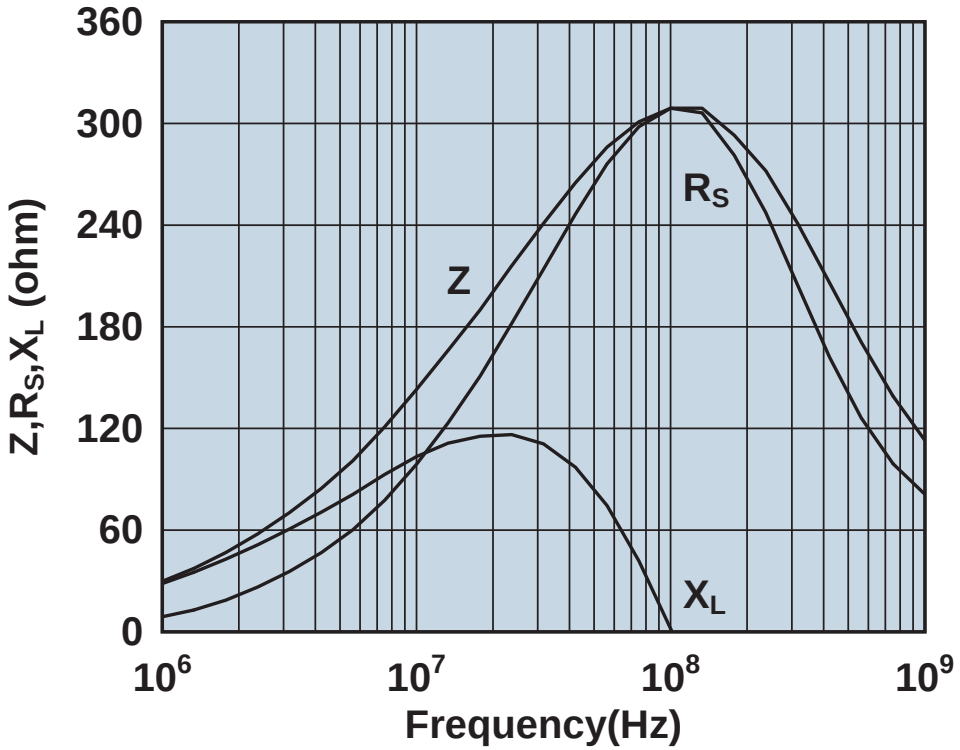


Impedance, reactance, and resistance vs. frequency.

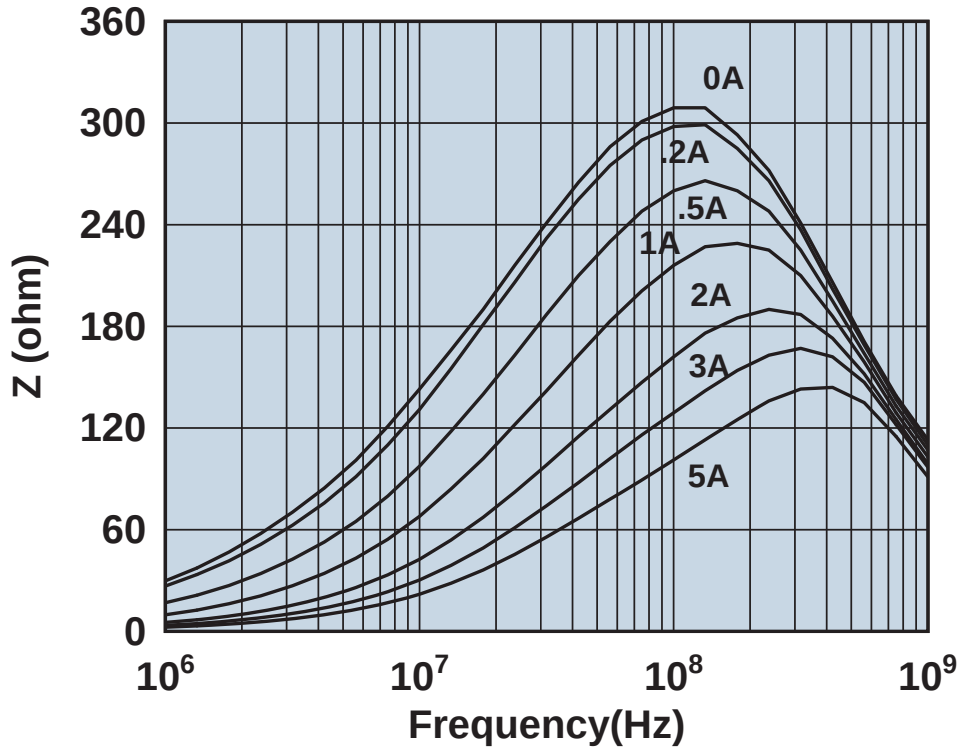


Impedance vs. frequency with dc bias.

2743013211

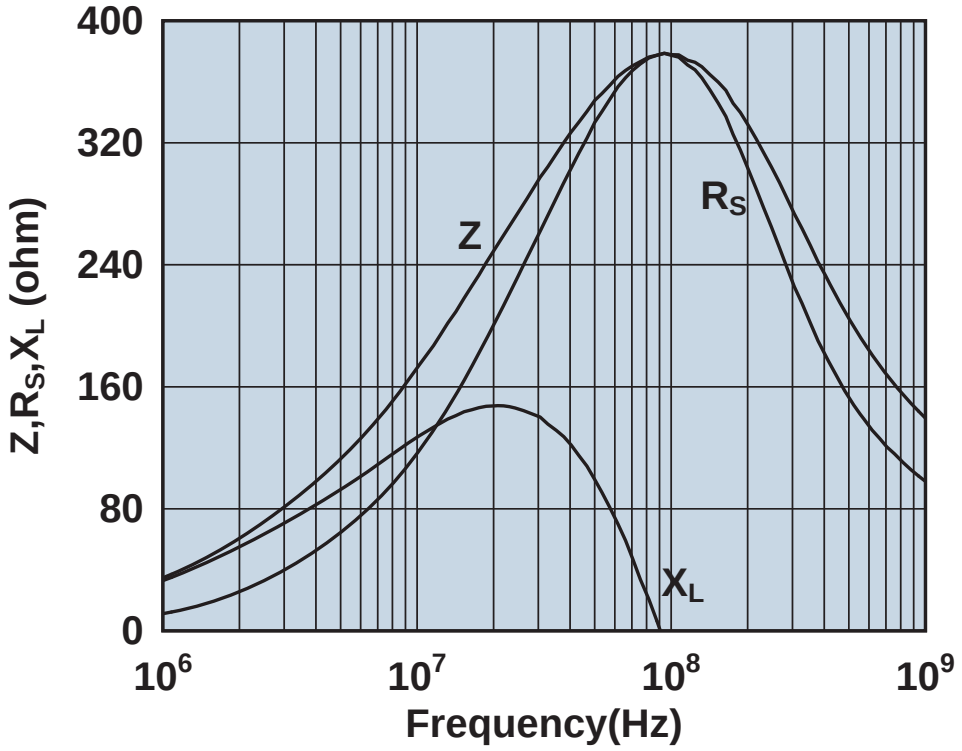


Impedance, reactance, and resistance vs. frequency.

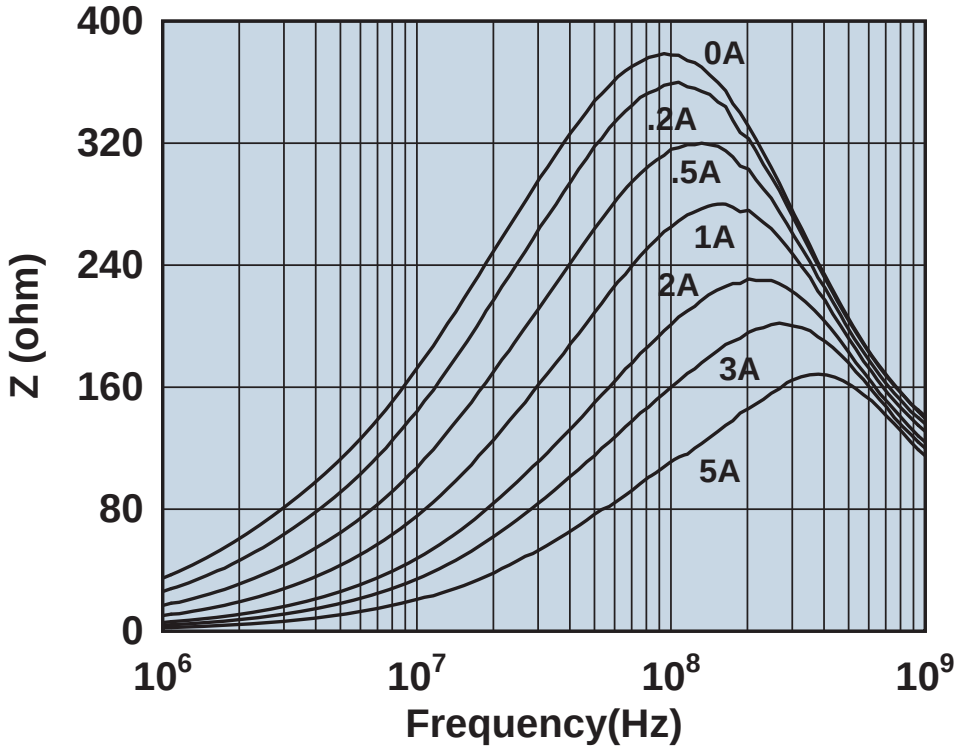


Impedance vs. frequency with dc bias.

2743014221

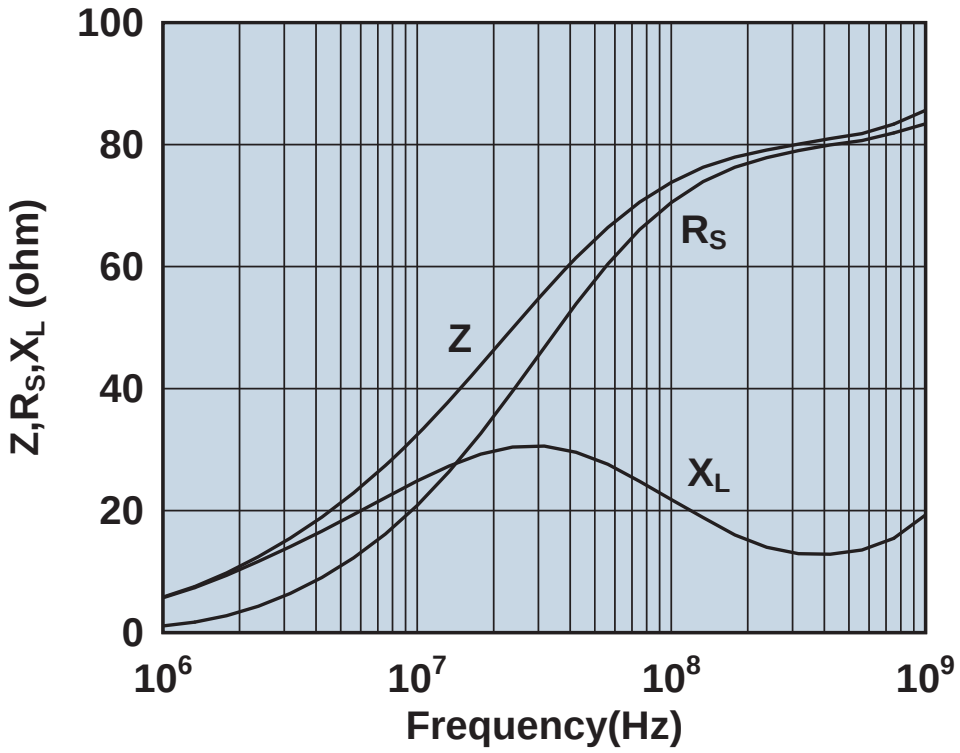


Impedance, reactance, and resistance vs. frequency.

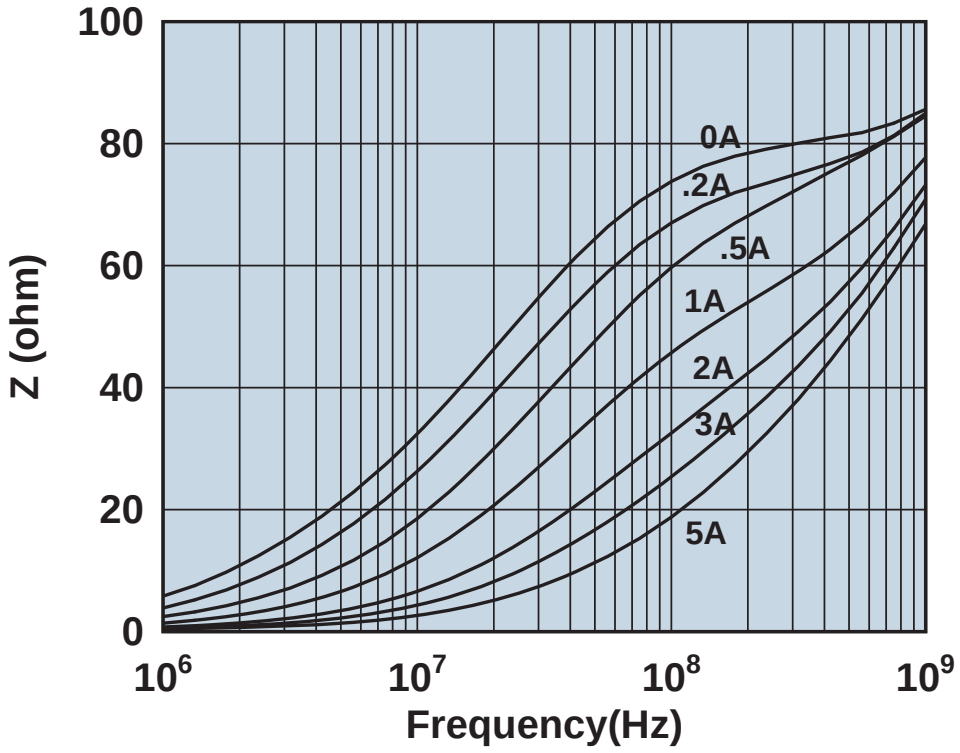


Impedance vs. frequency with dc bias.

2743015112

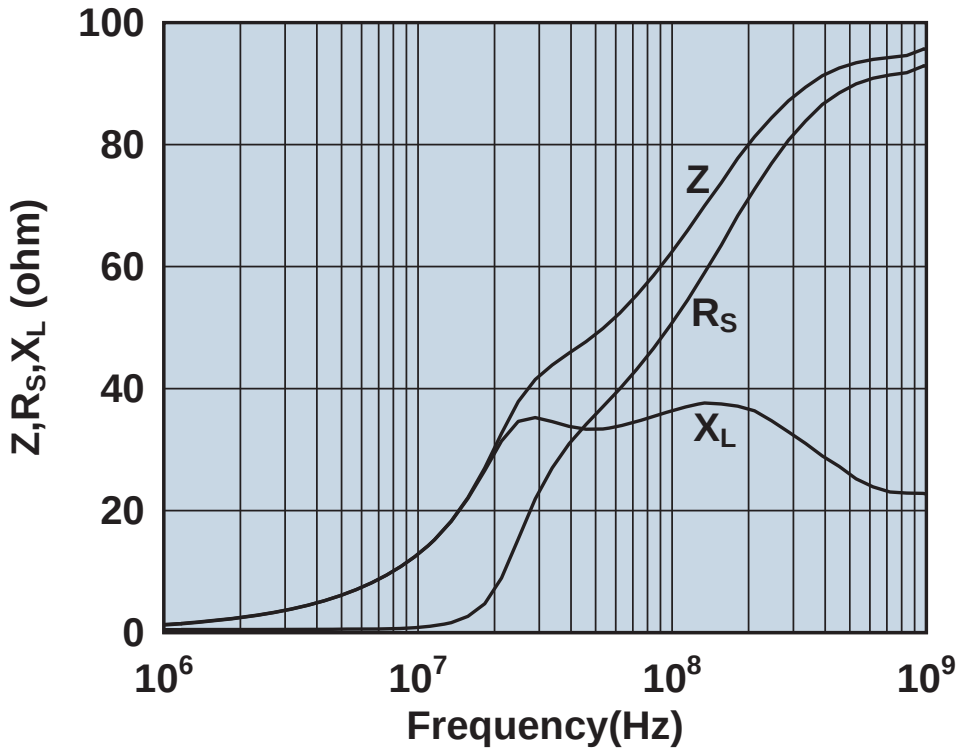


Impedance, reactance, and resistance vs. frequency.

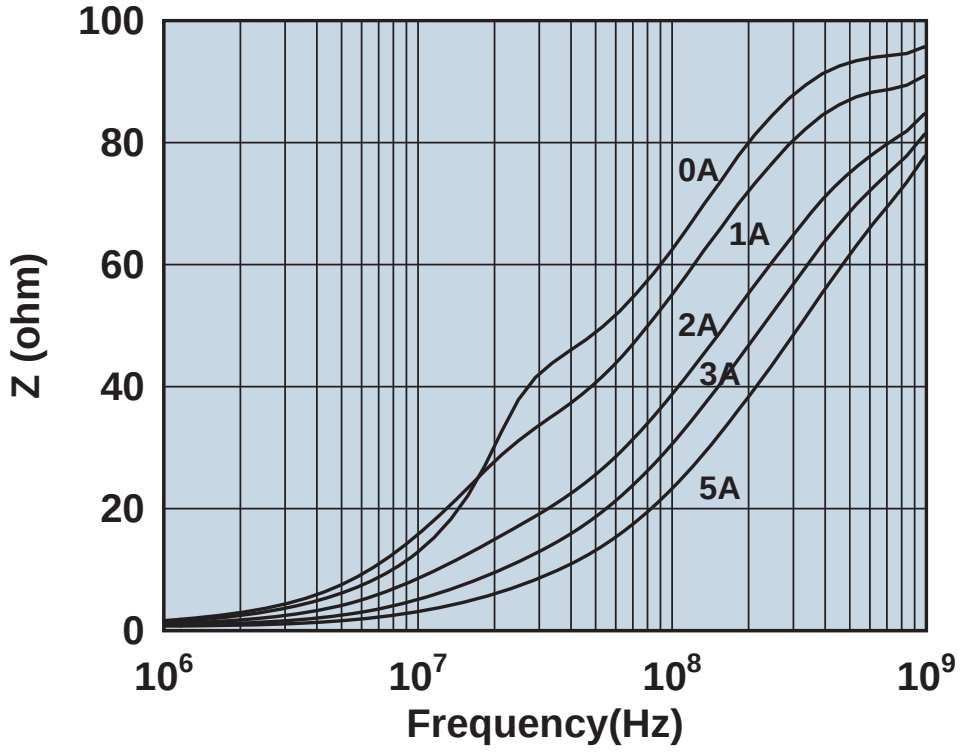


Impedance vs. frequency with dc bias.

2761001112

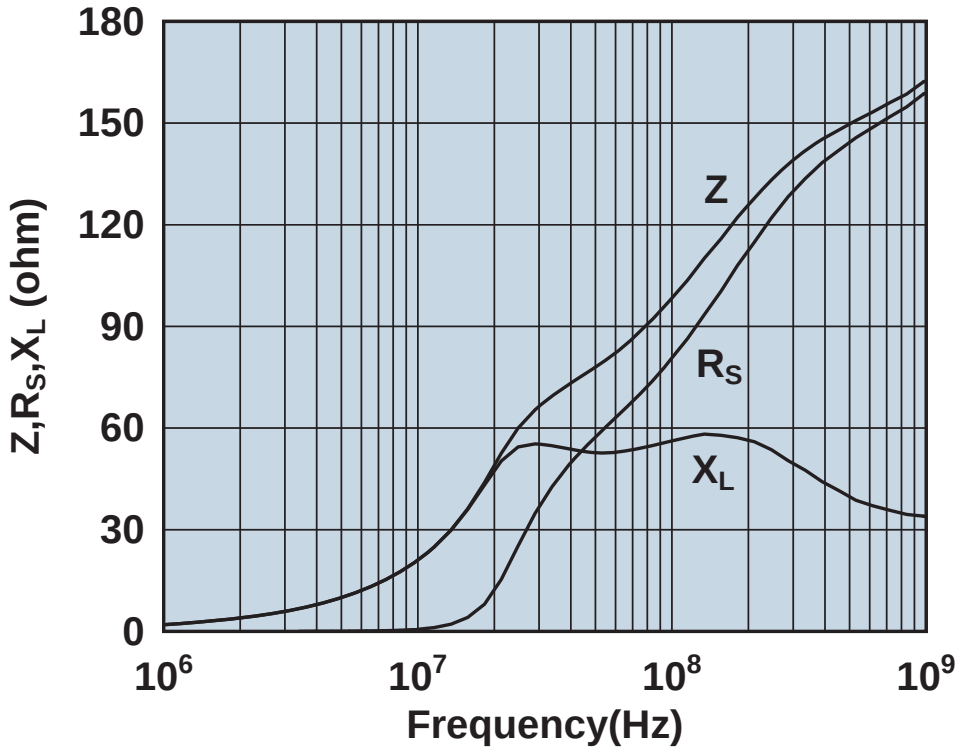


Impedance, reactance, and resistance vs. frequency.

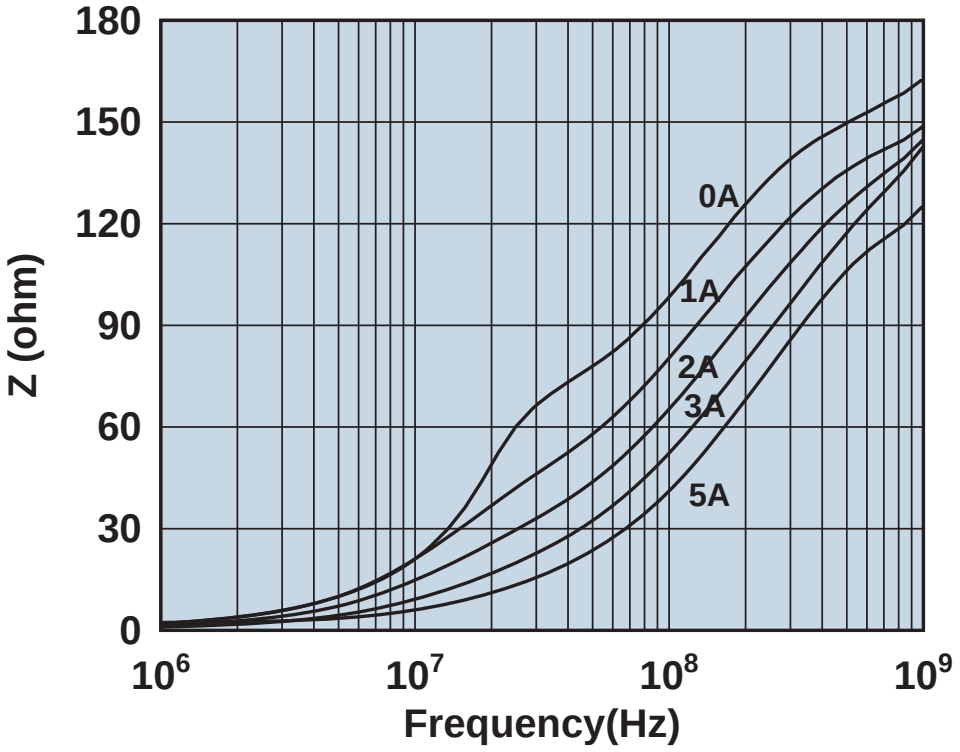


Impedance vs. frequency with dc bias.

2761002112

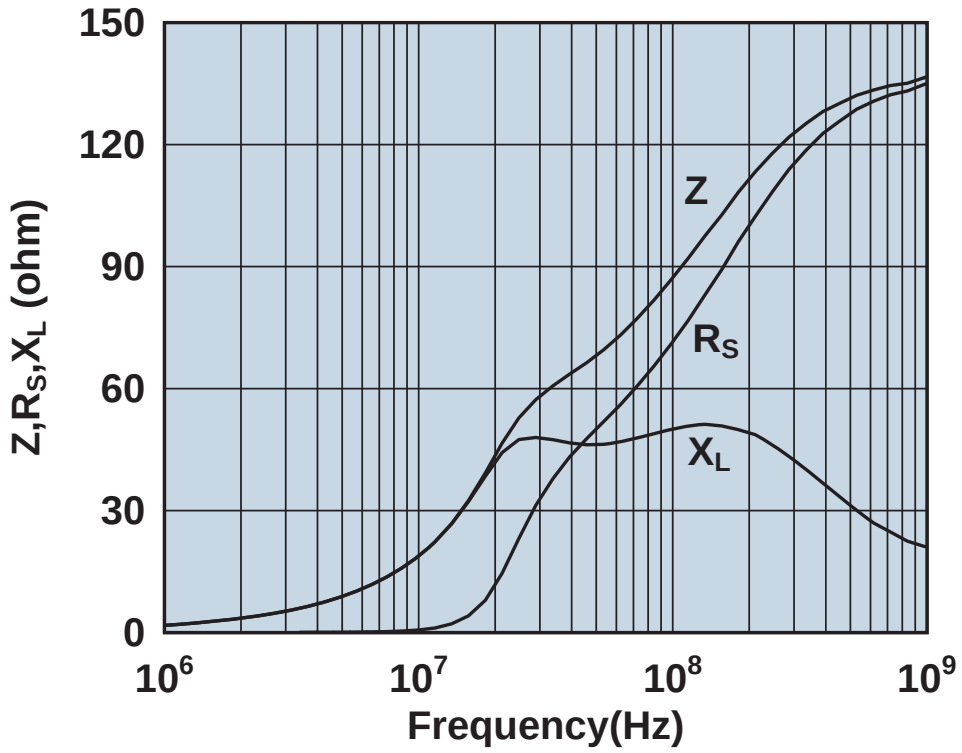


Impedance, reactance, and resistance vs. frequency.

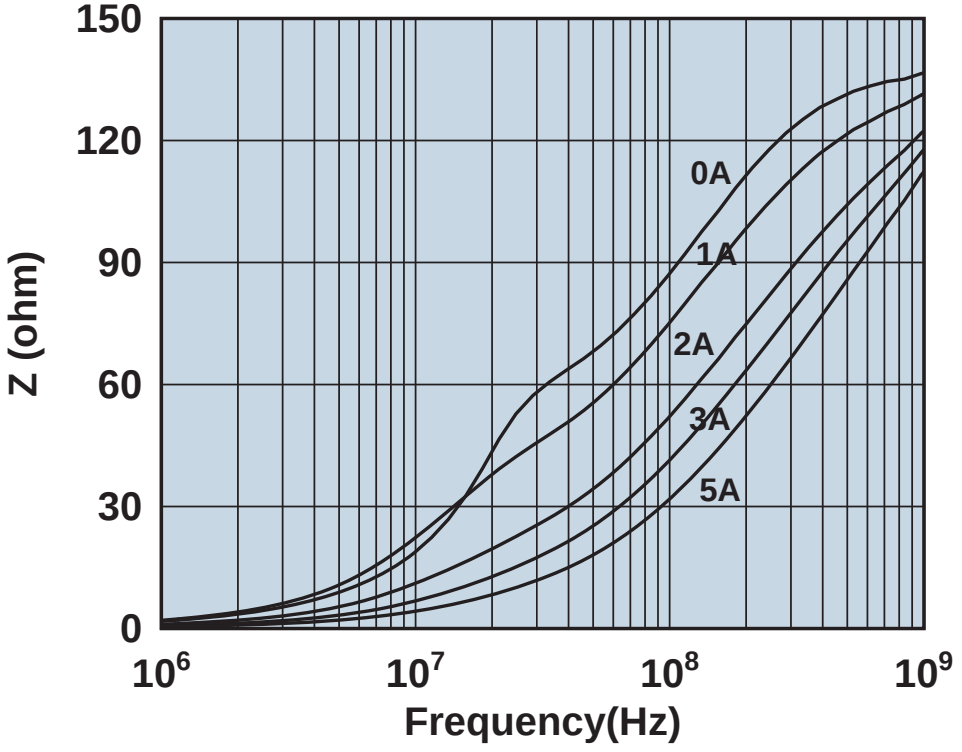


Impedance vs. frequency with dc bias.

2761003112

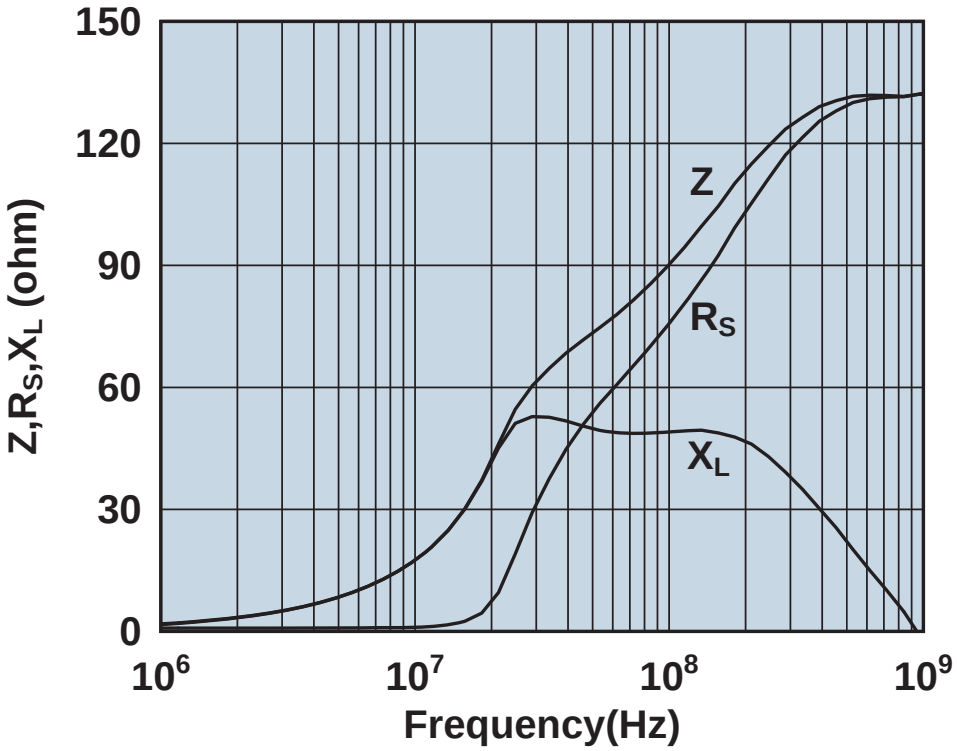


Impedance, reactance, and resistance vs. frequency.



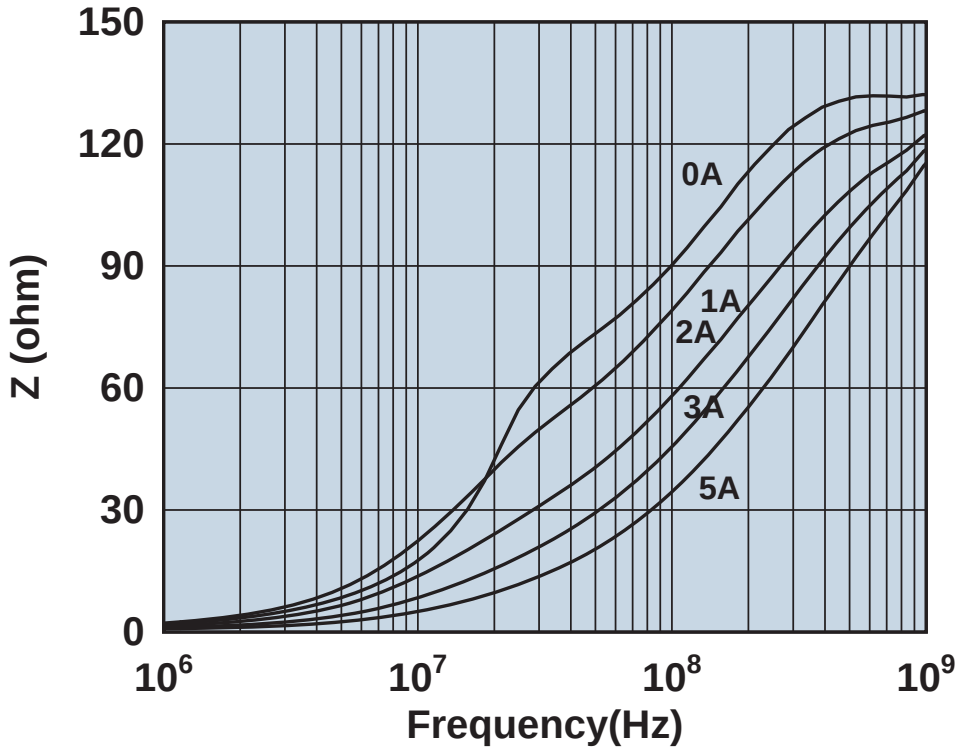
Impedance vs. frequency with dc bias.

2761004112



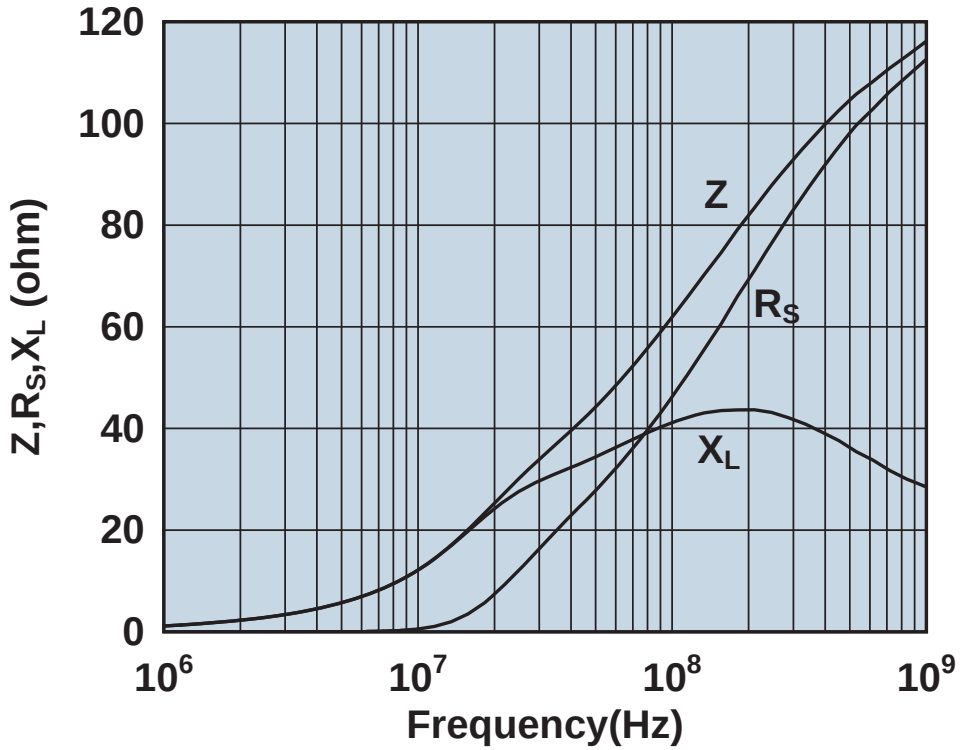
Impedance, reactance, and resistance vs. frequency.

2761004112

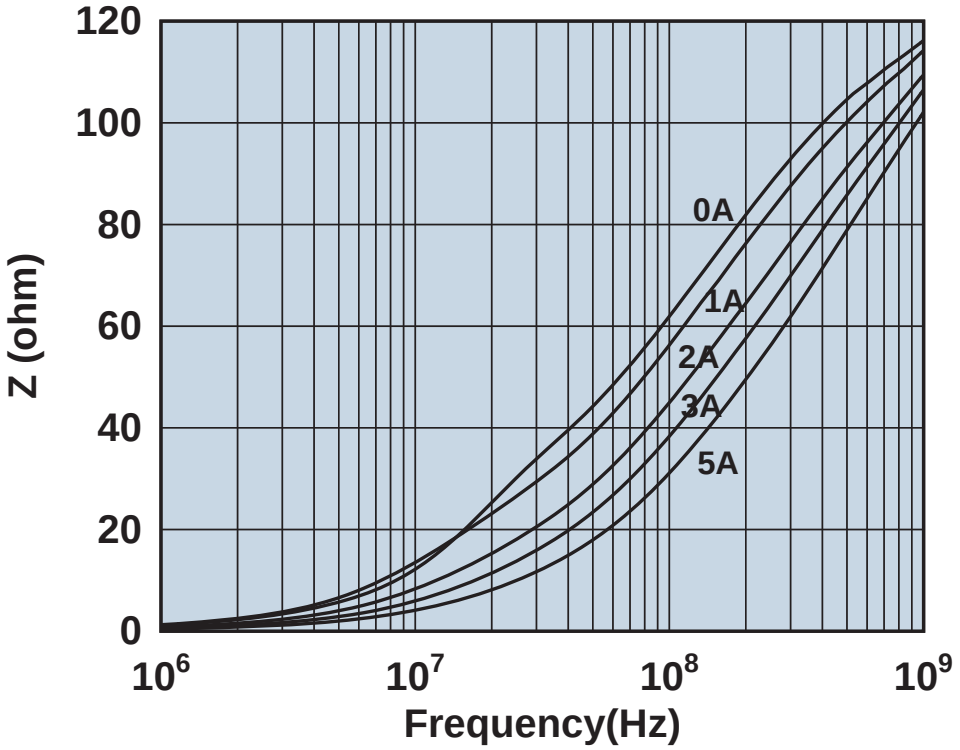


Impedance vs. frequency with dc bias.

2761005112

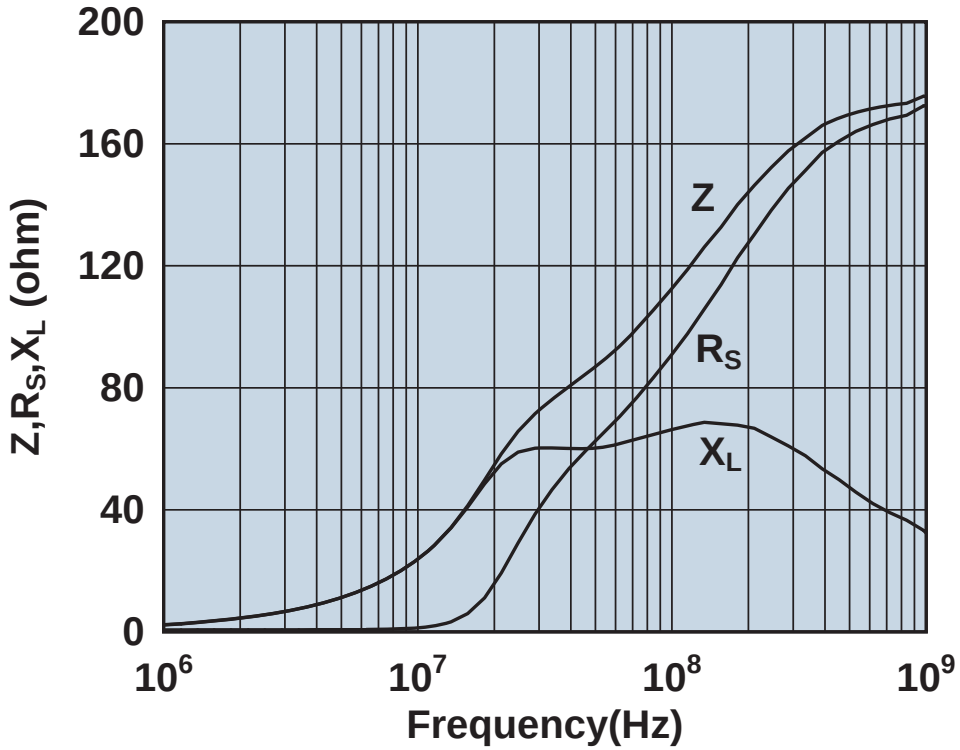


Impedance, reactance, and resistance vs. frequency.

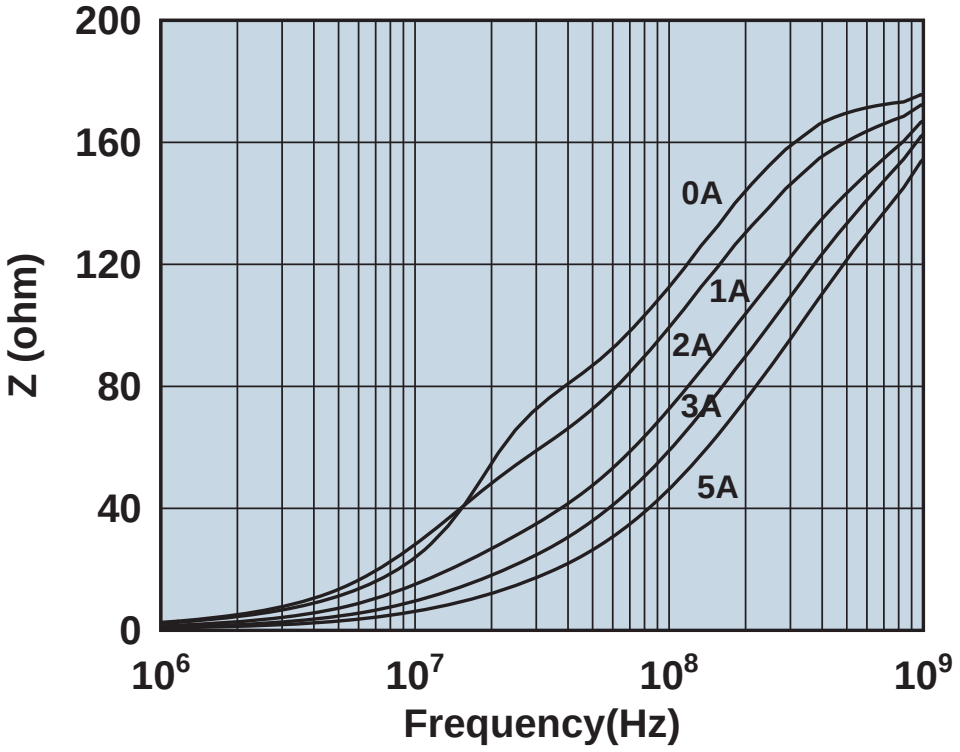


Impedance vs. frequency with dc bias.

2761007112

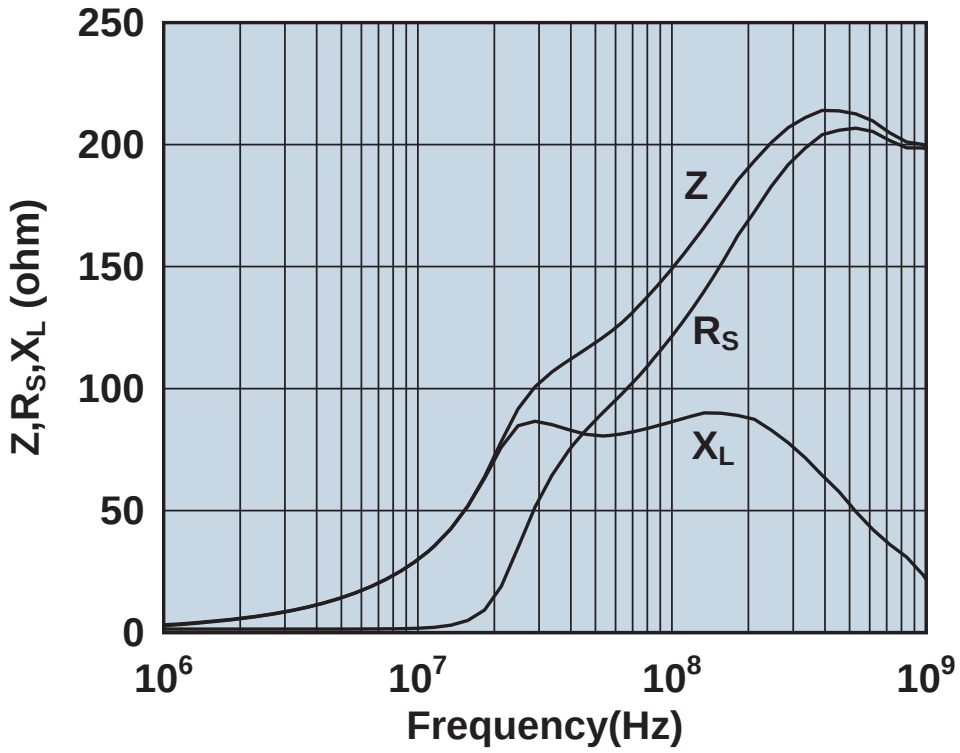


Impedance, reactance, and resistance vs. frequency.

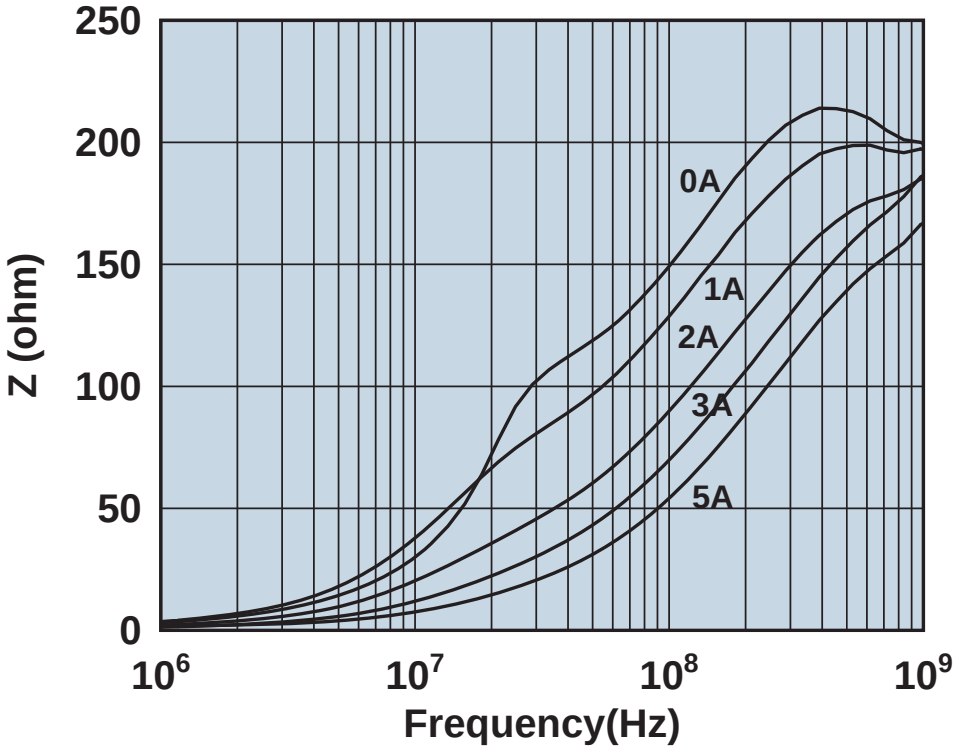


Impedance vs. frequency with dc bias.

2761008112

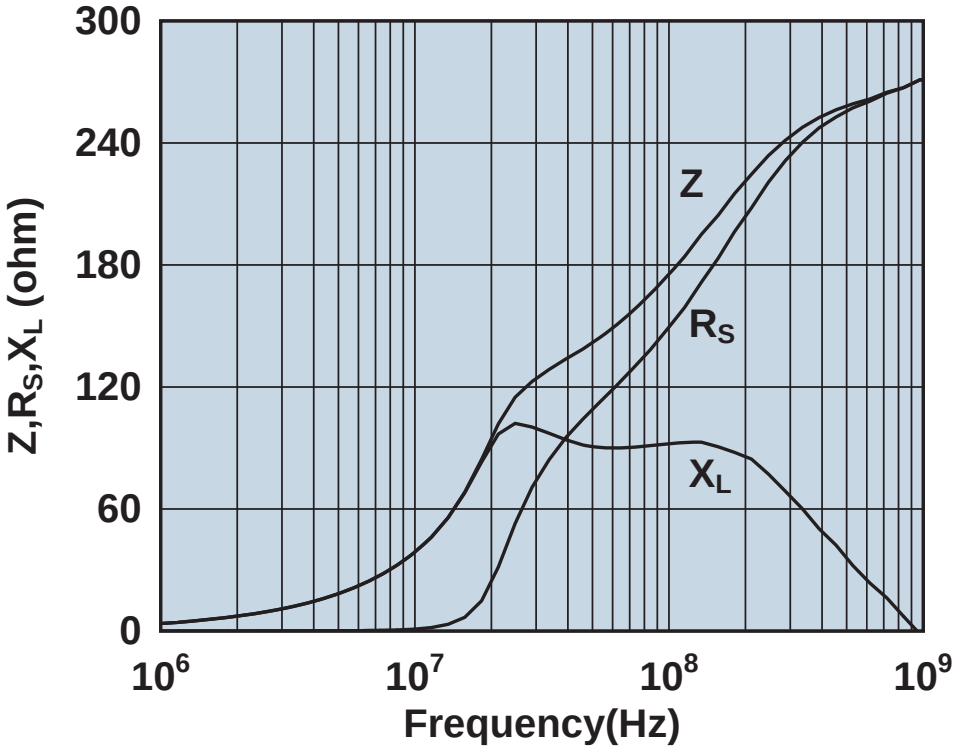


Impedance, reactance, and resistance vs. frequency.

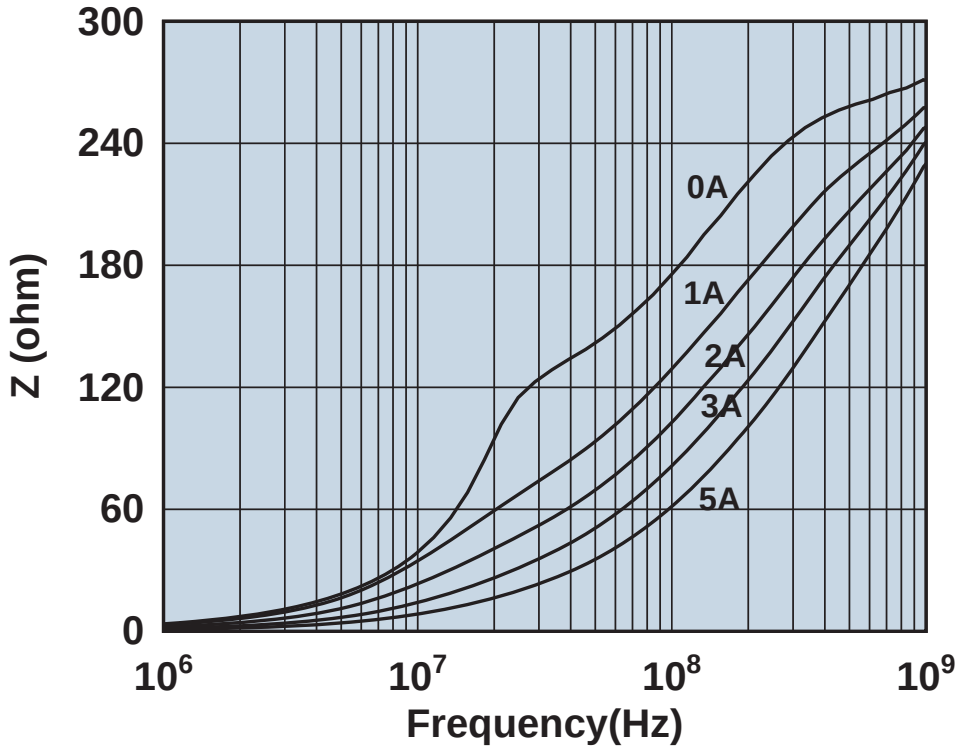


Impedance vs. frequency with dc bias.

2761009112

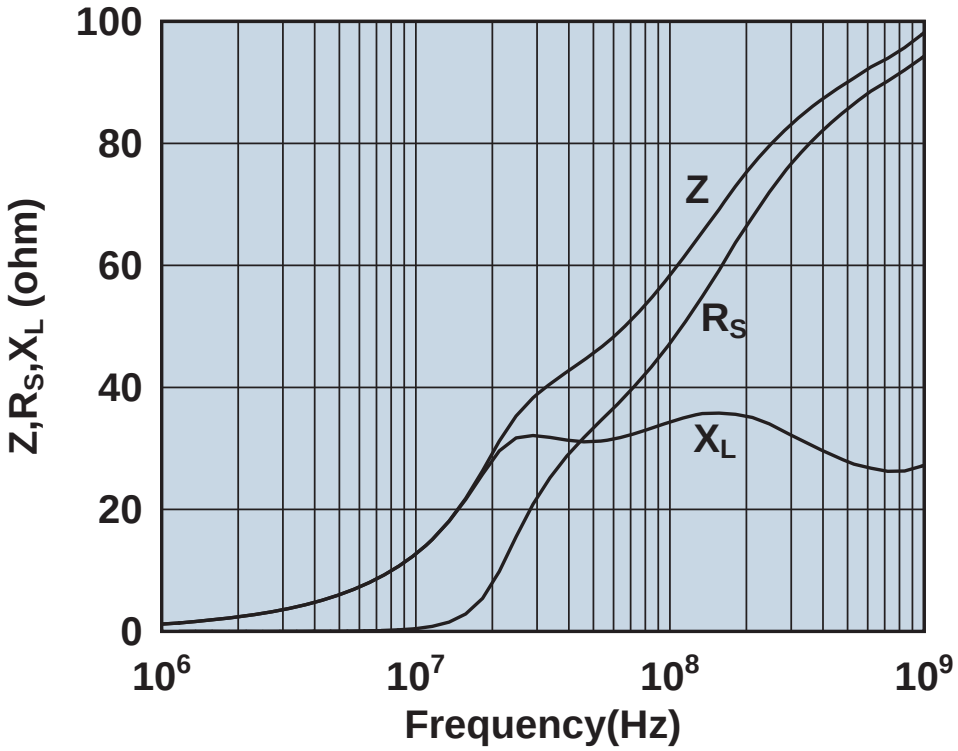


Impedance, reactance, and resistance vs. frequency.

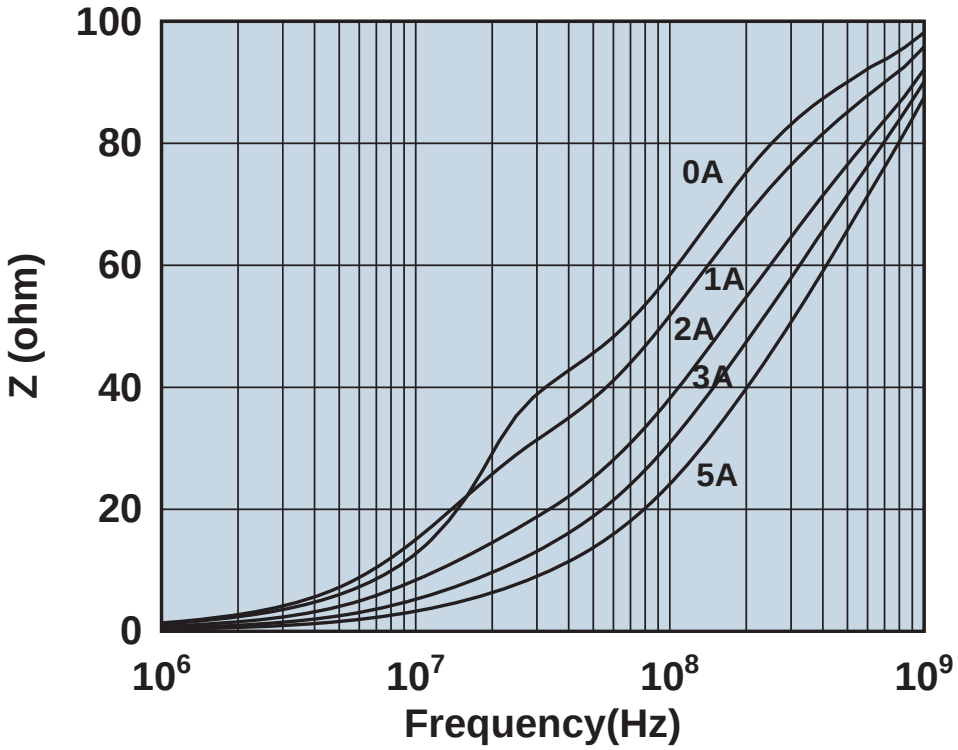


Impedance vs. frequency with dc bias.

2761015112

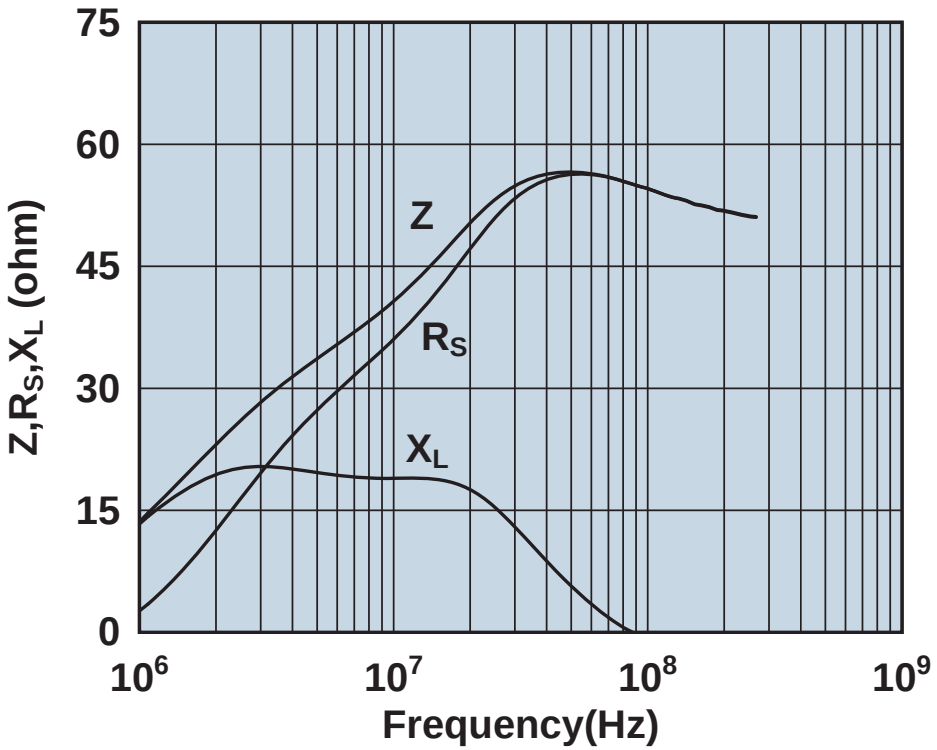


Impedance, reactance, and resistance vs. frequency.

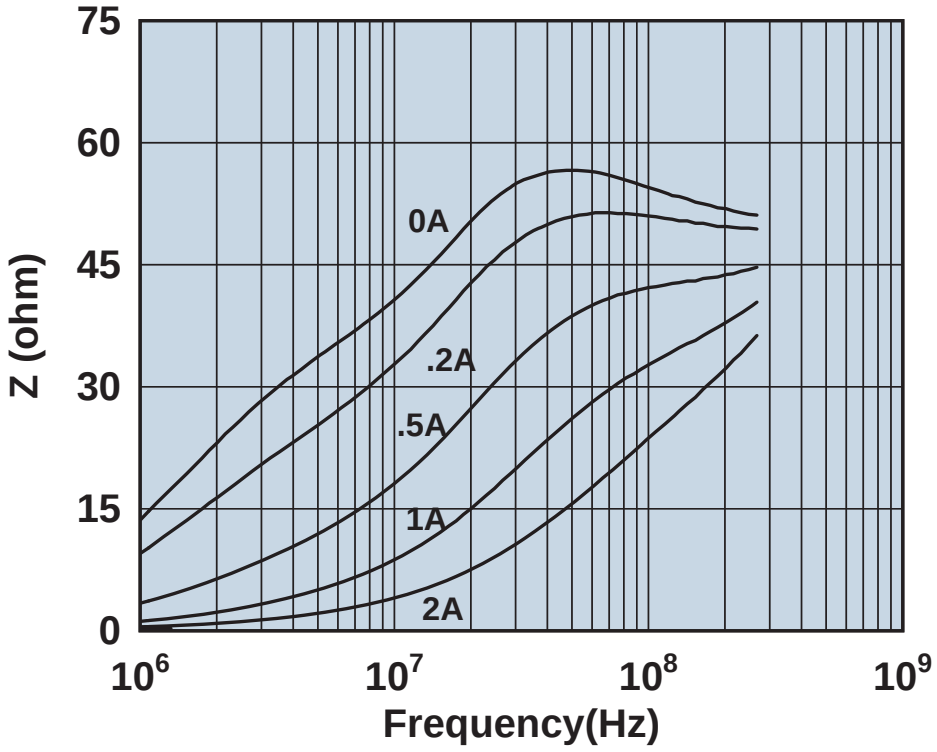


Impedance vs. frequency with dc bias.

2773001112

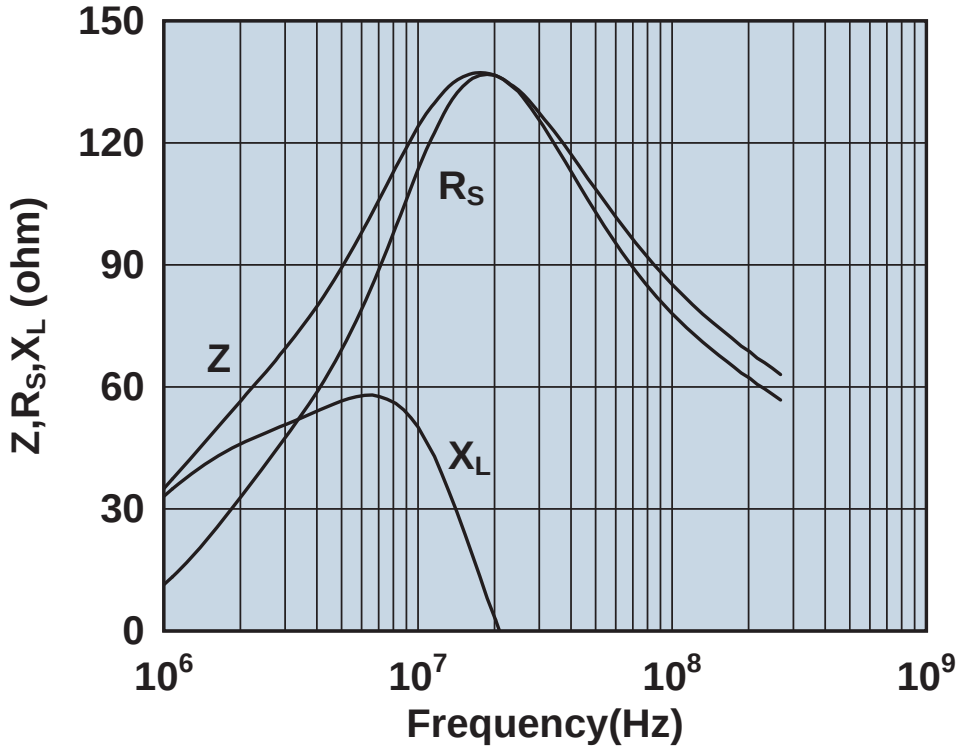


Impedance, reactance, and resistance vs. frequency.

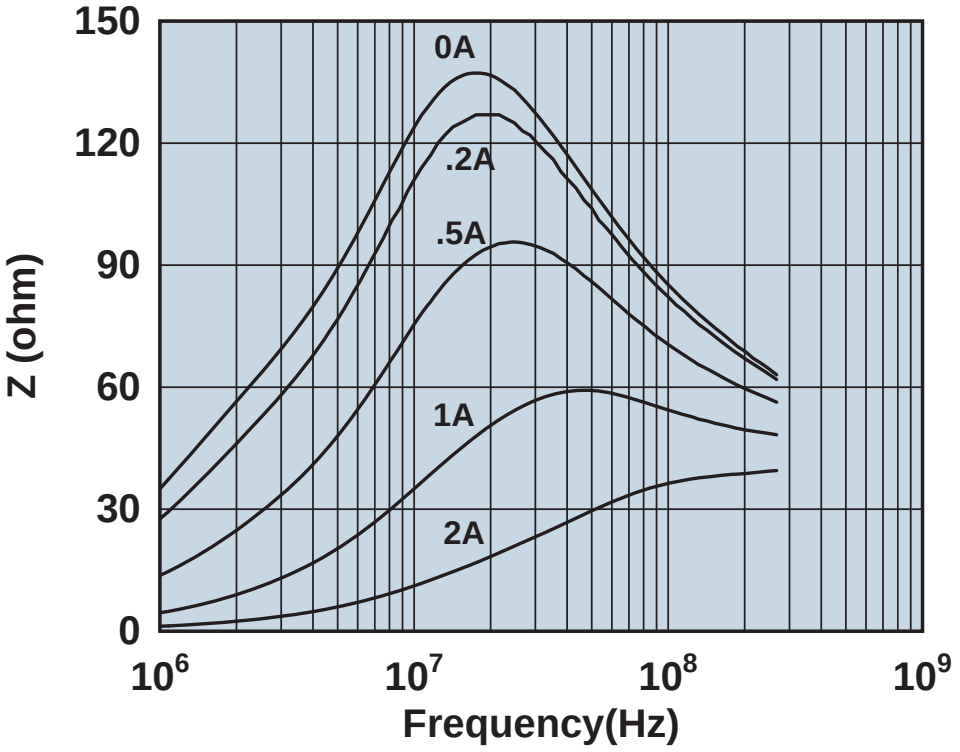


Impedance vs. frequency with dc bias.

2773002112

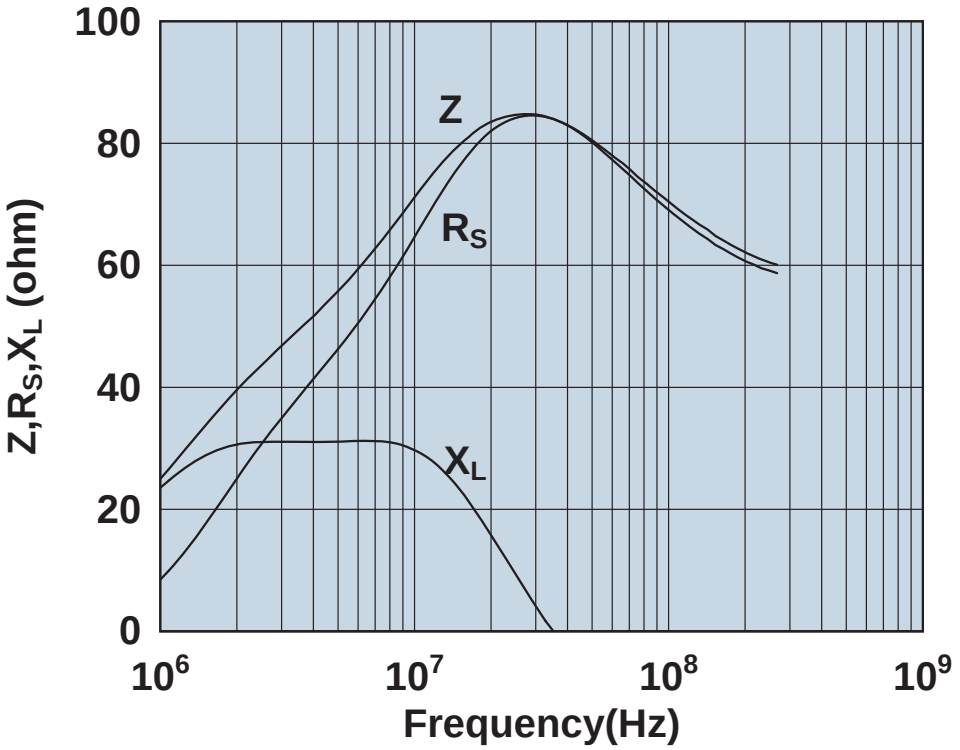


Impedance, reactance, and resistance vs. frequency.

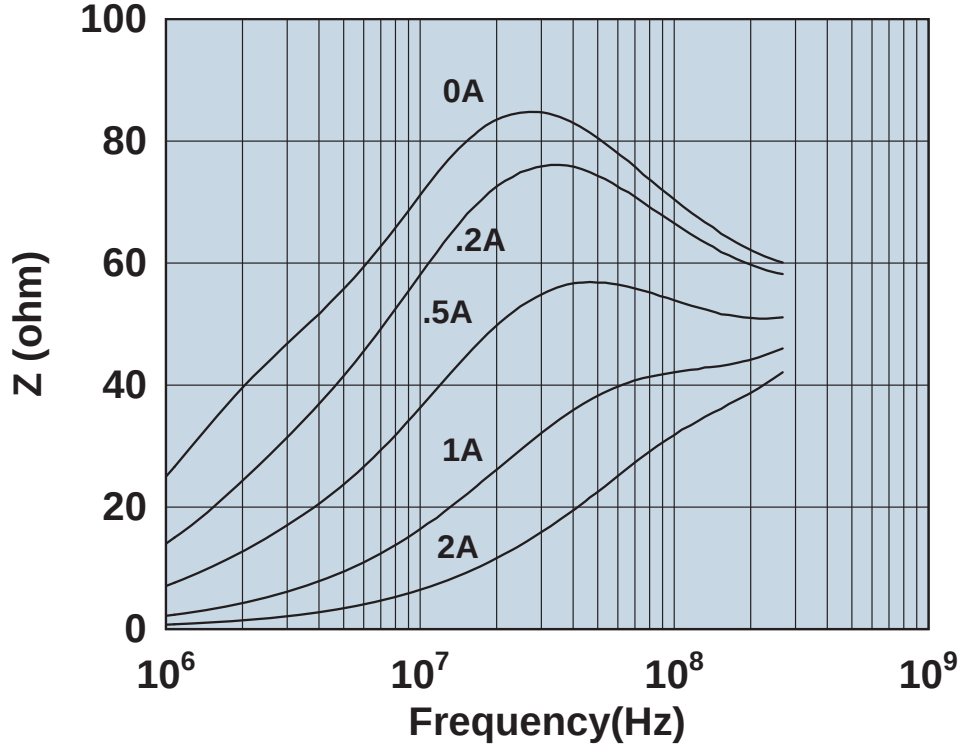


Impedance vs. frequency with dc bias.

2773003112

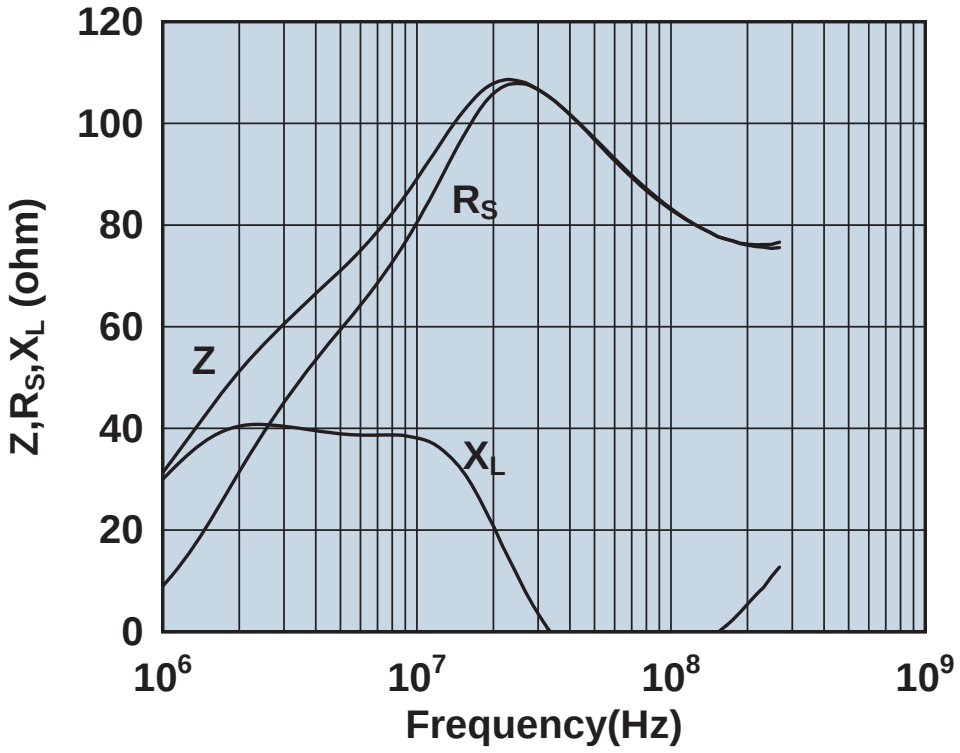


Impedance, reactance, and resistance vs. frequency.

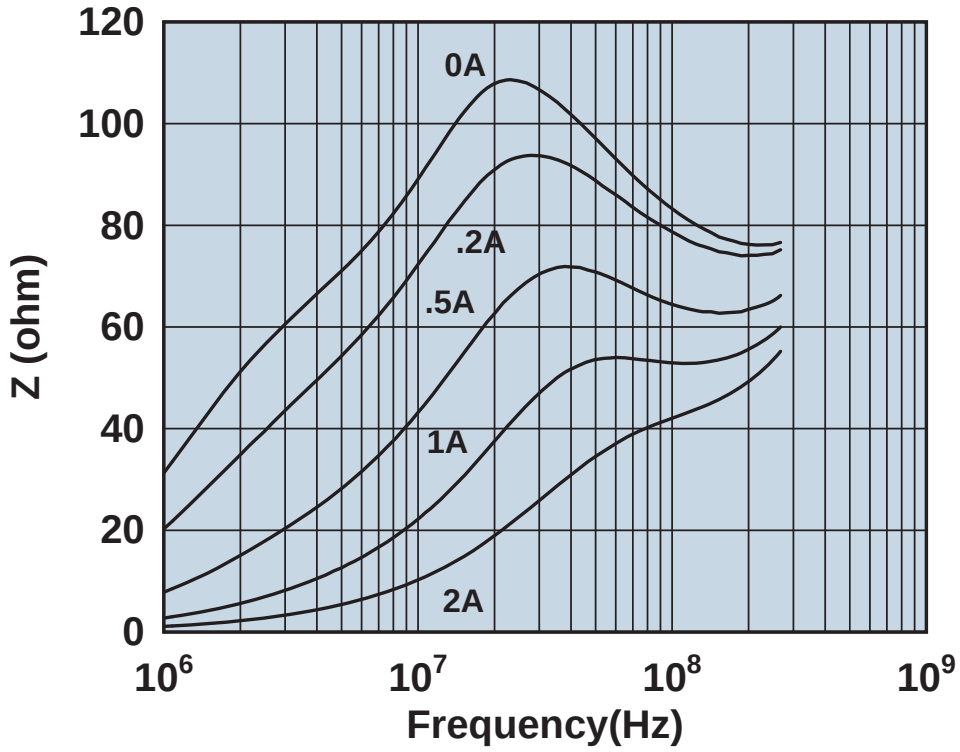


Impedance vs. frequency with dc bias.

2773004112

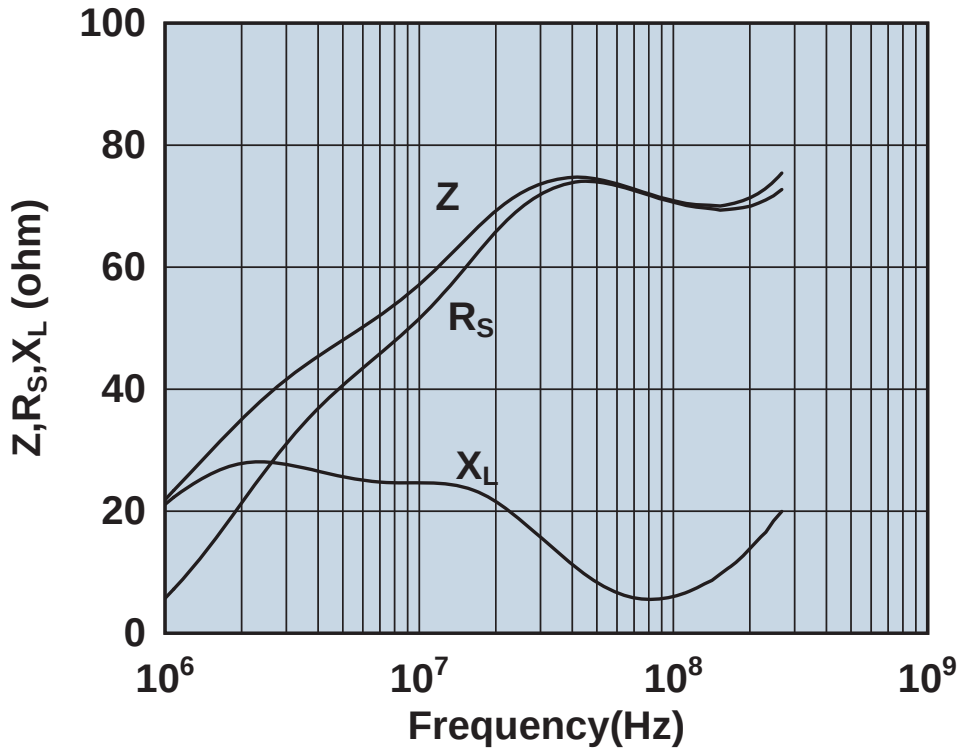


Impedance, reactance, and resistance vs. frequency.

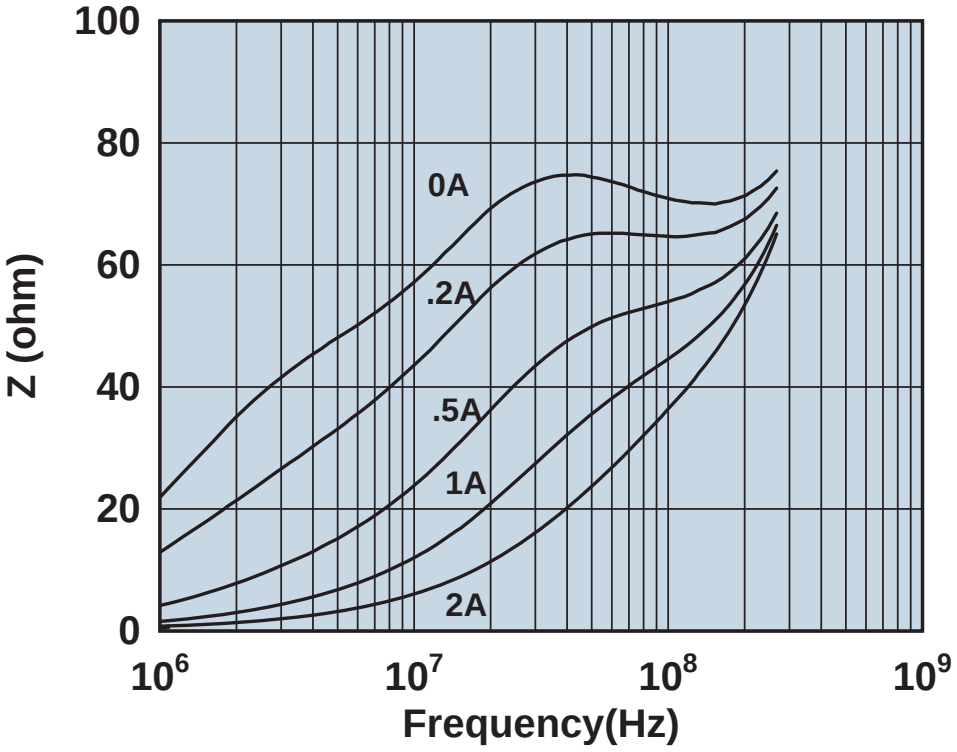


Impedance vs. frequency with dc bias.

2773005112

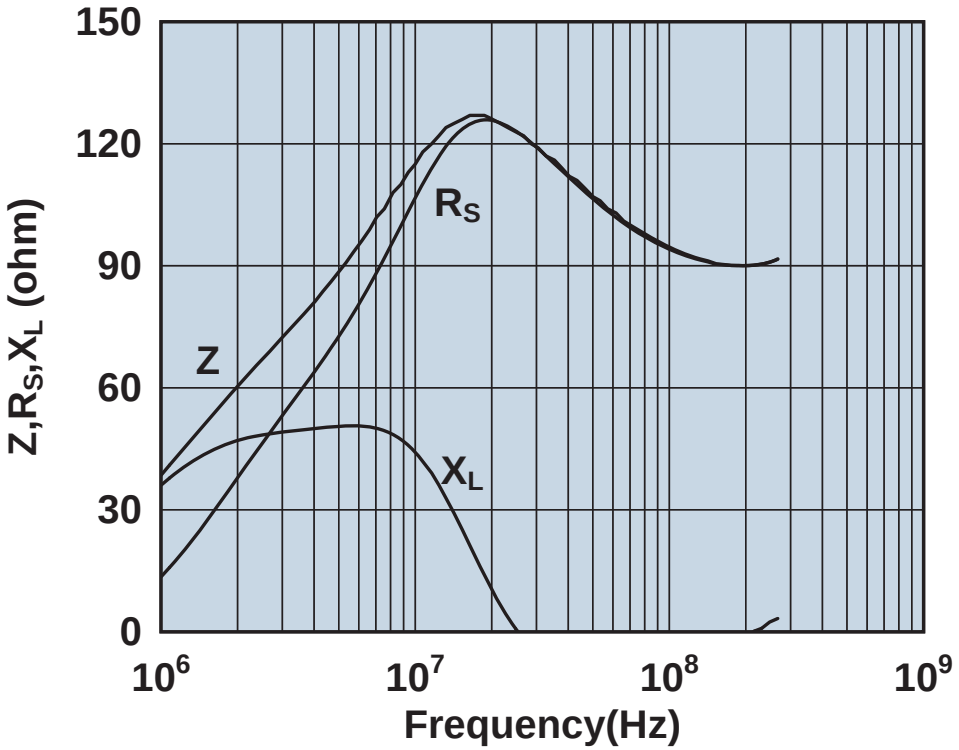


Impedance, reactance, and resistance vs. frequency.

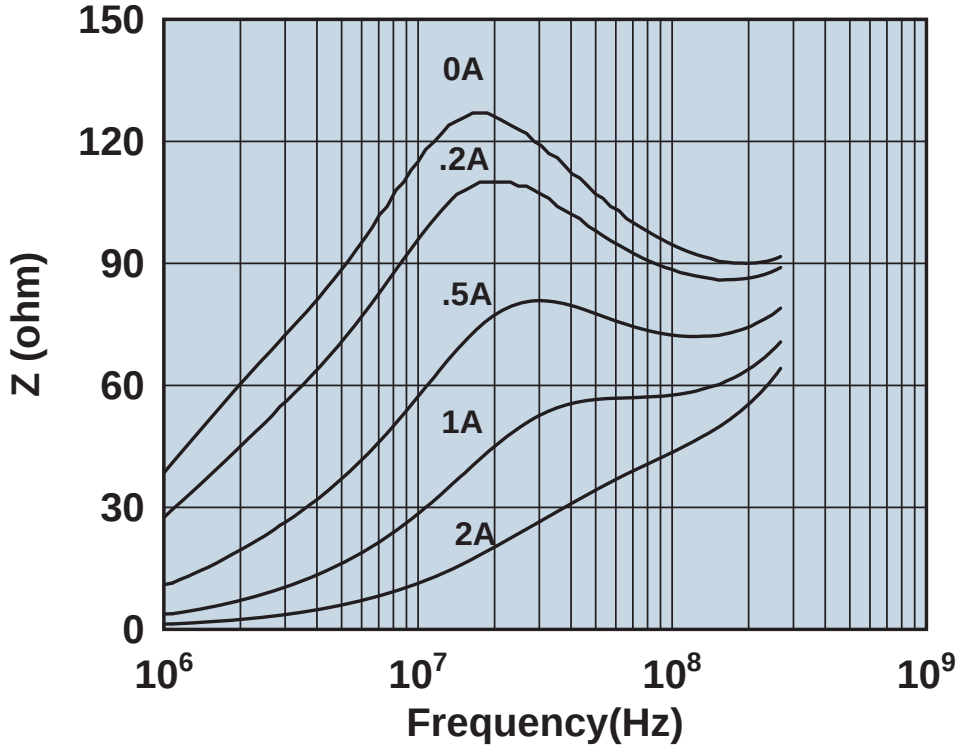


Impedance vs. frequency with dc bias.

2773007112

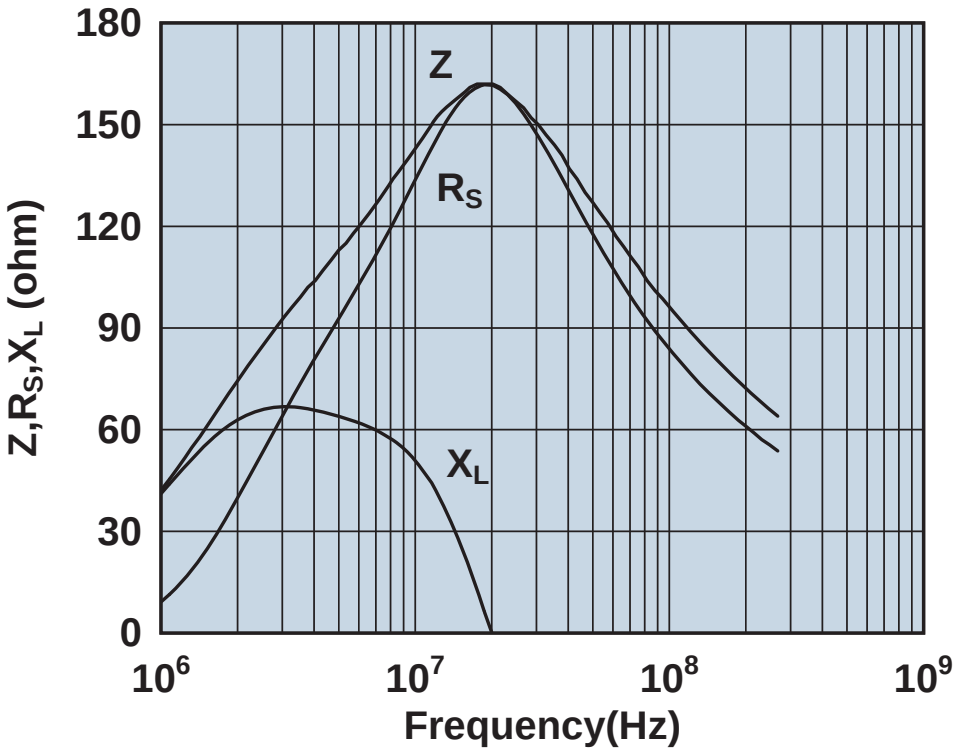


Impedance, reactance, and resistance vs. frequency.

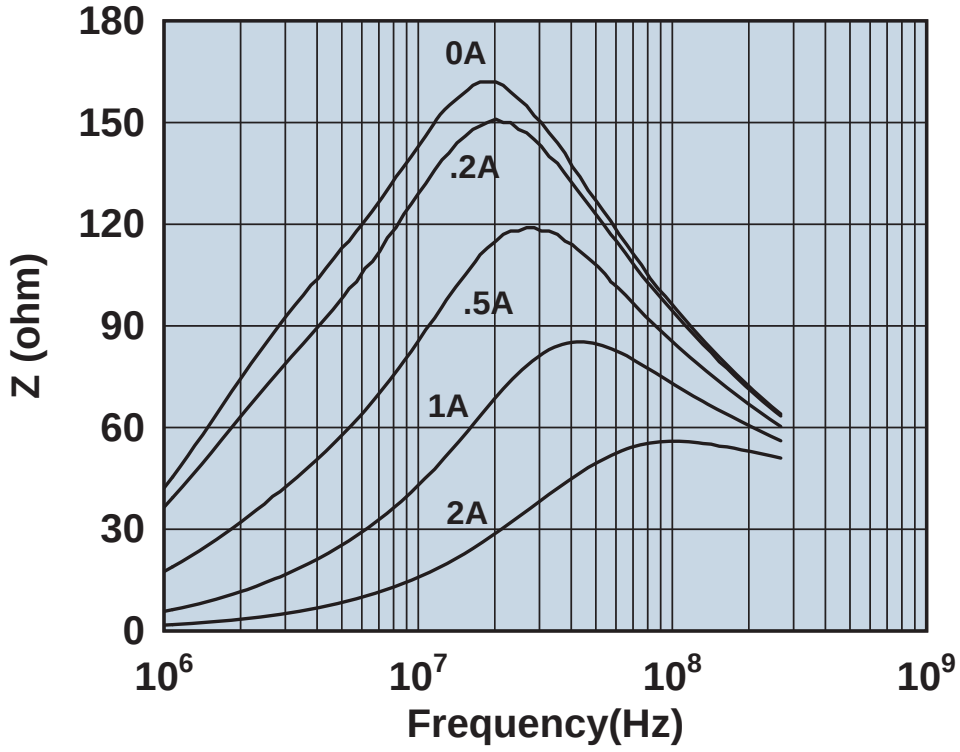


Impedance vs. frequency with dc bias.

2773008112

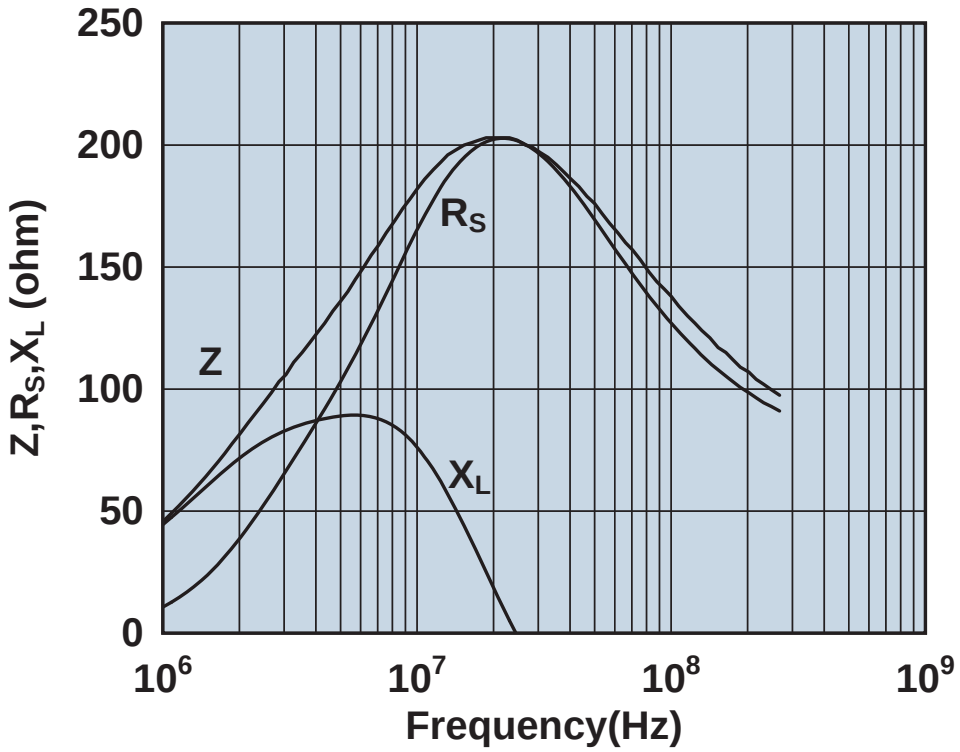


Impedance, reactance, and resistance vs. frequency.

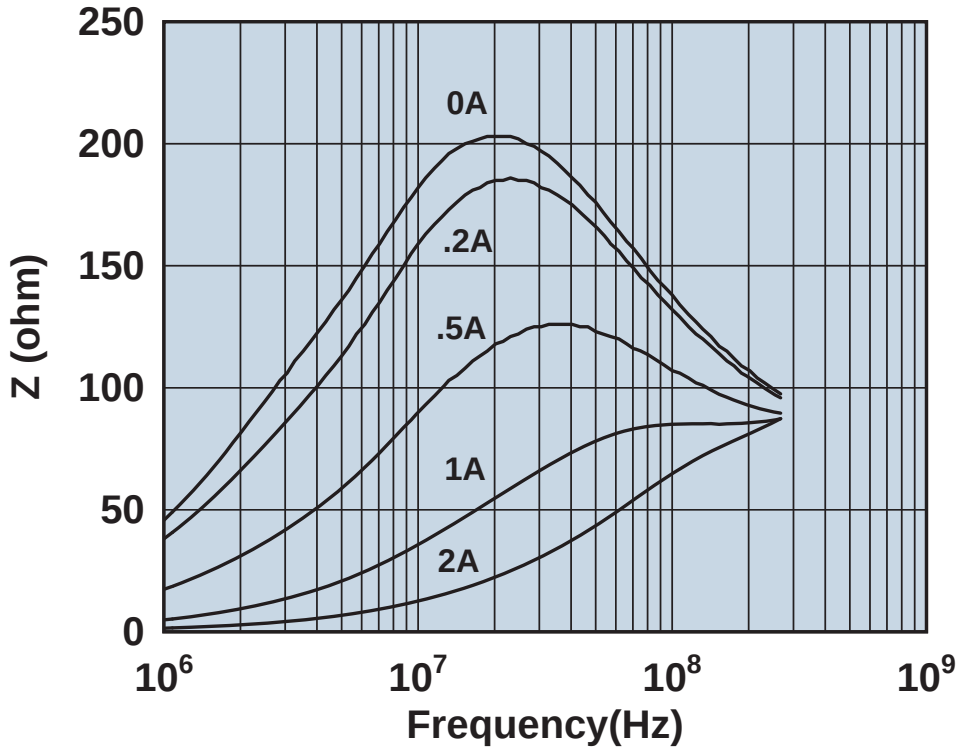


Impedance vs. frequency with dc bias.

2773009112

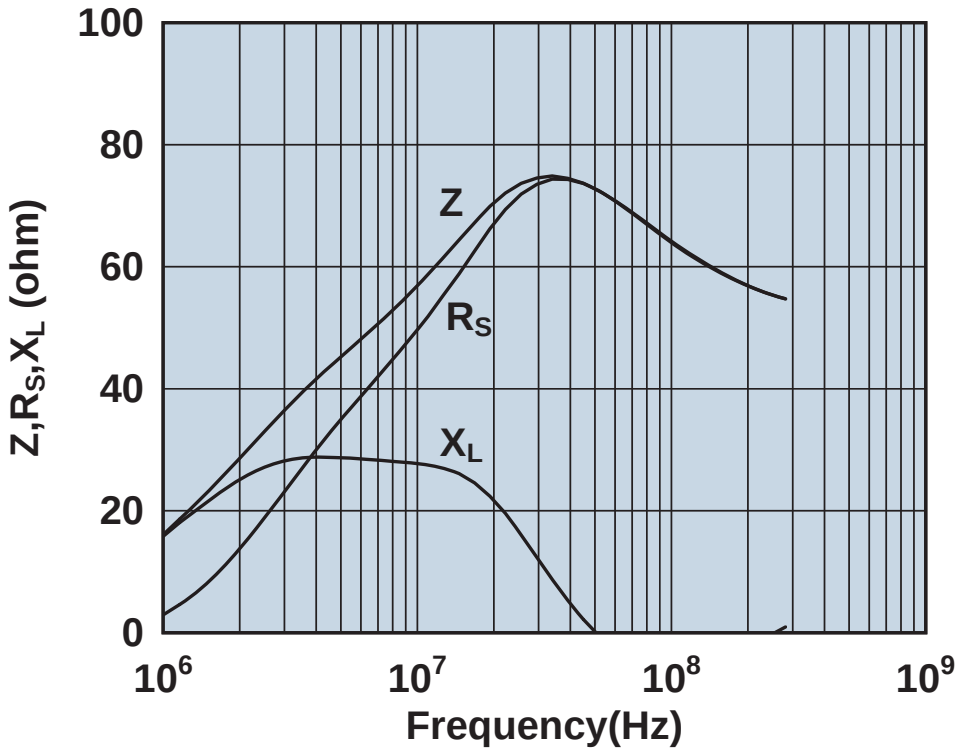


Impedance, reactance, and resistance vs. frequency.

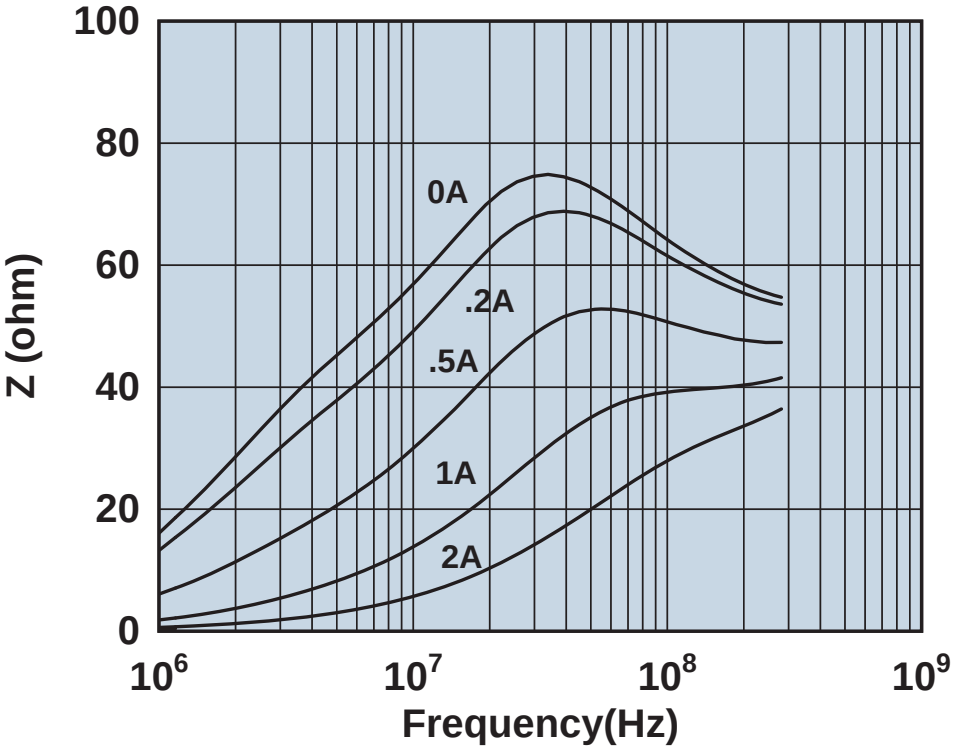


Impedance vs. frequency with dc bias.

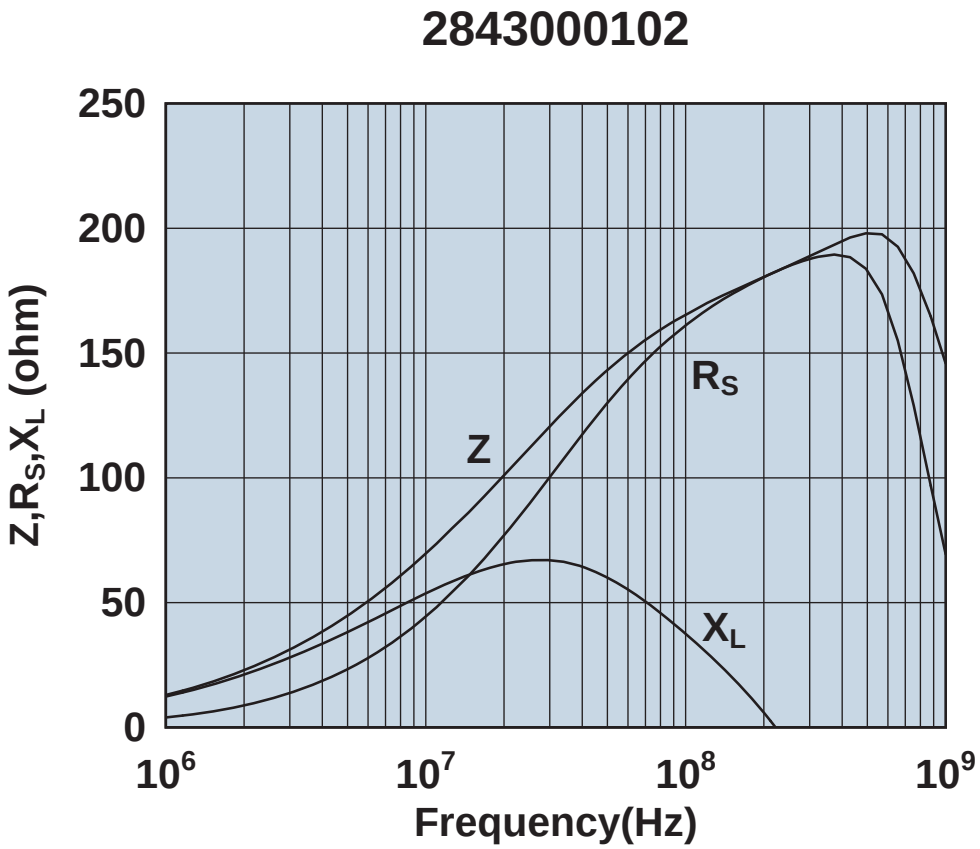
2773015112



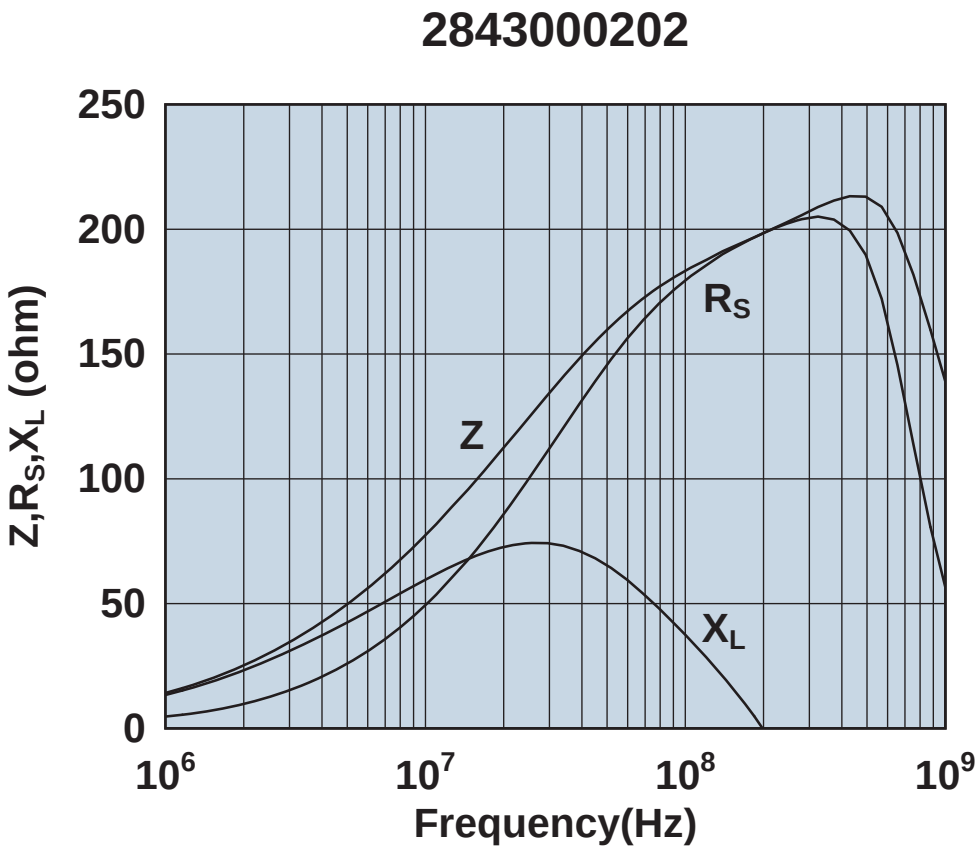
Impedance, reactance, and resistance vs. frequency.



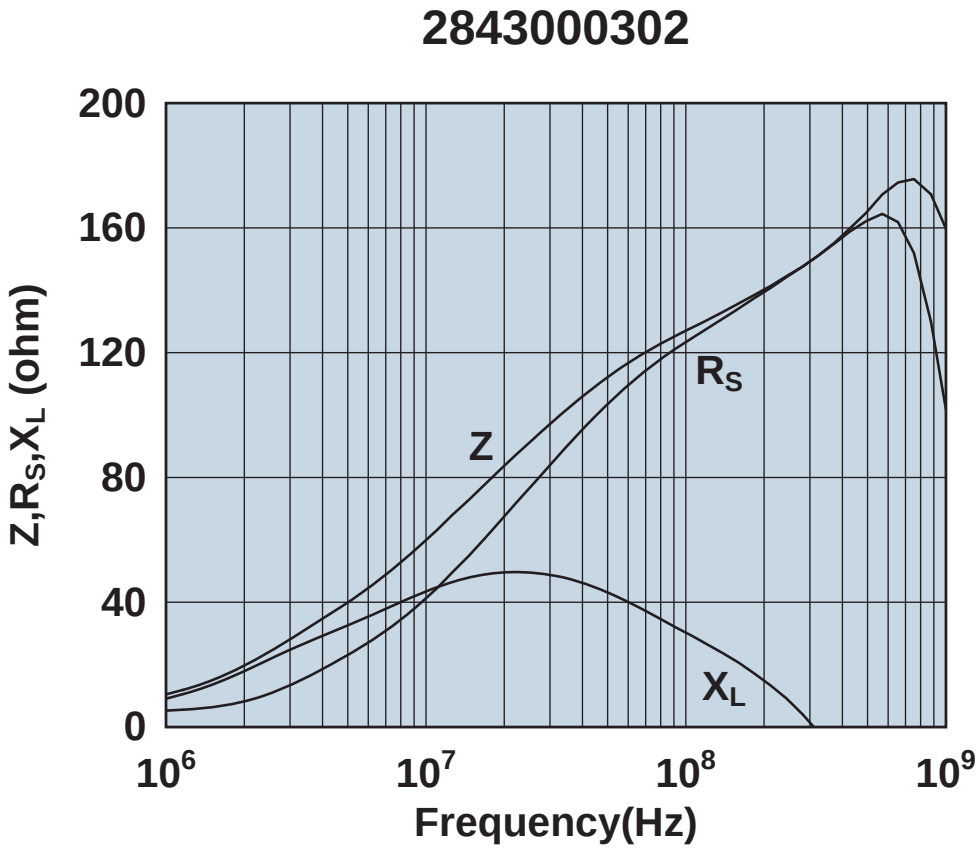
Impedance vs. frequency with dc bias.



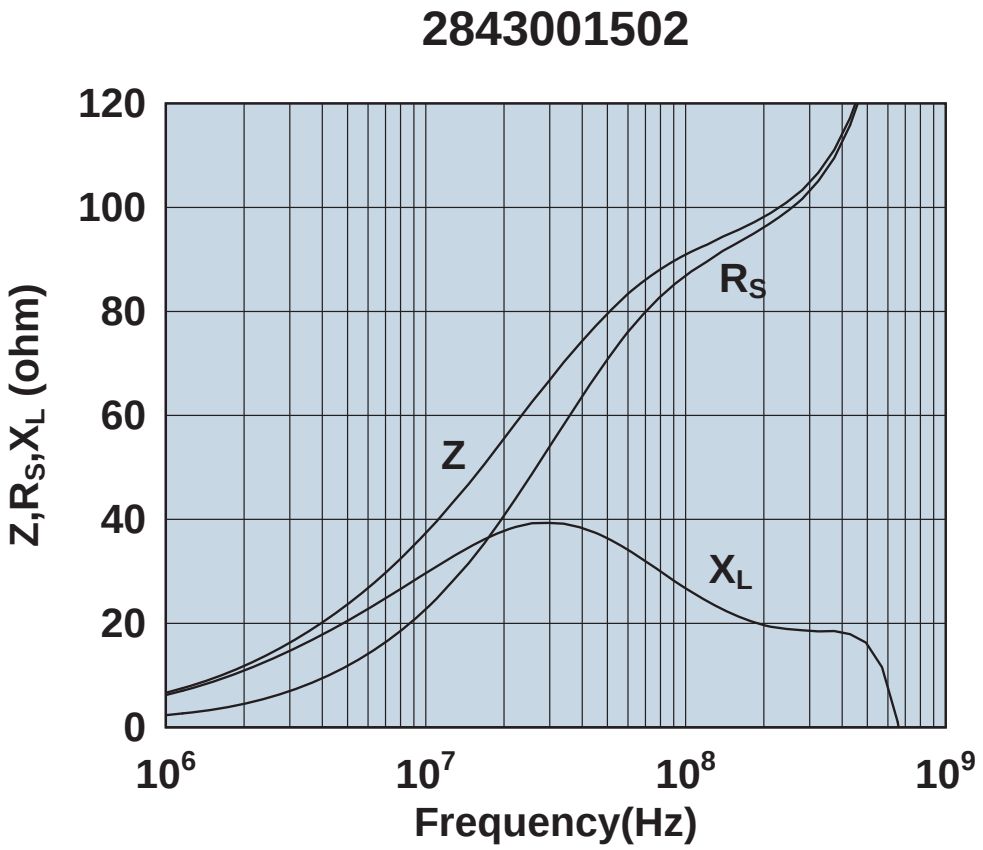
Impedance, reactance, and resistance vs. frequency.



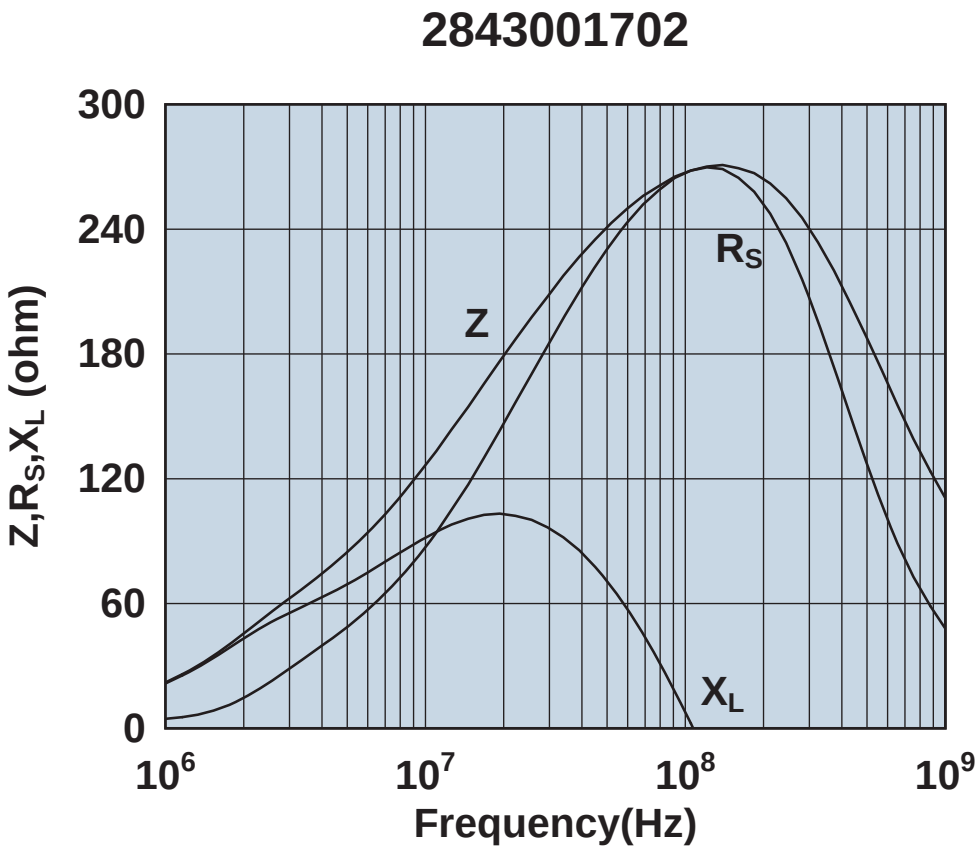
Impedance, reactance, and resistance vs. frequency.



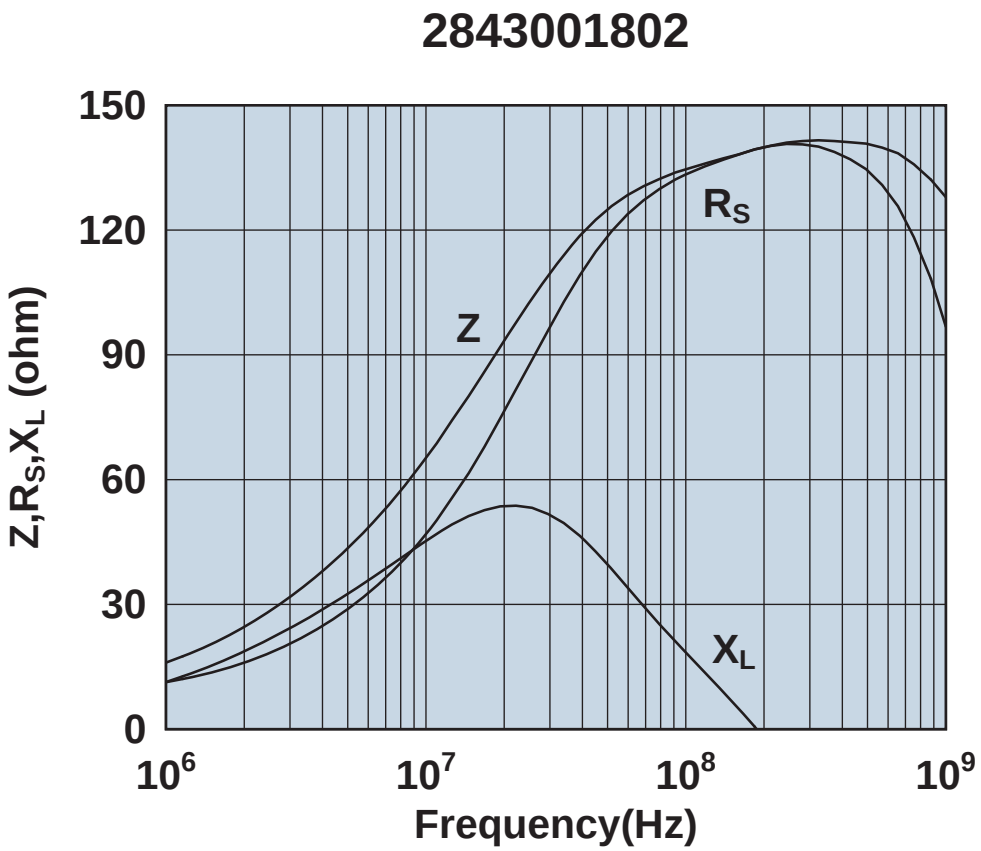
Impedance, reactance, and resistance vs. frequency.



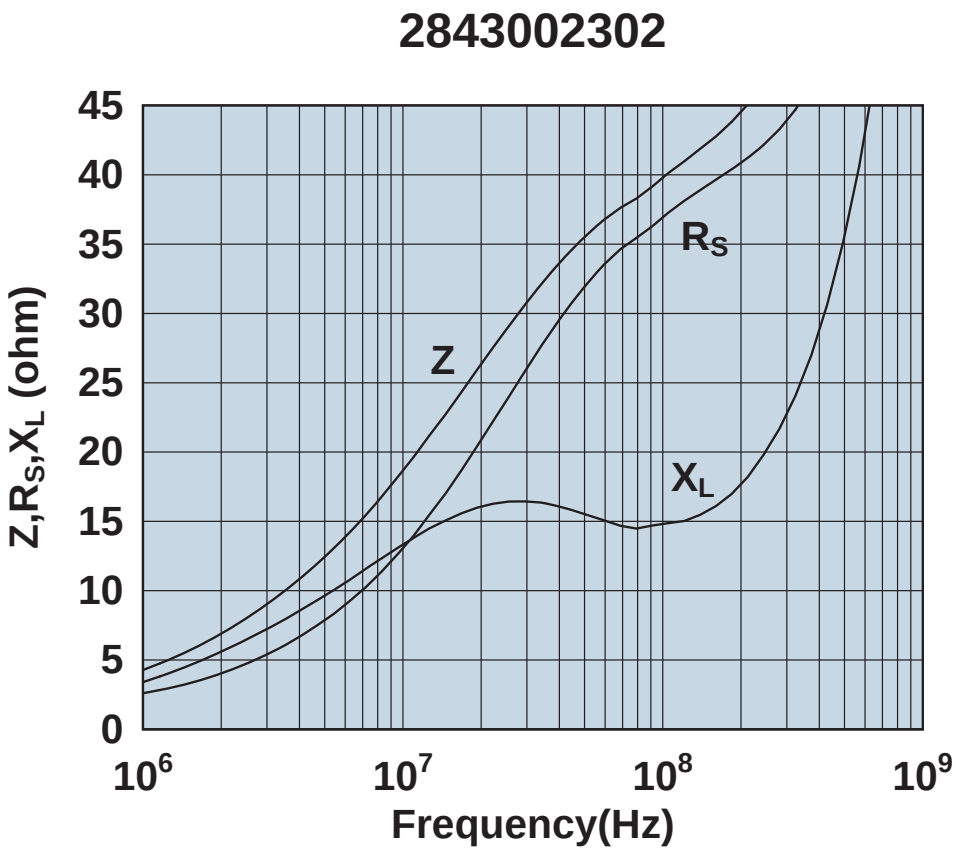
Impedance, reactance, and resistance vs. frequency.



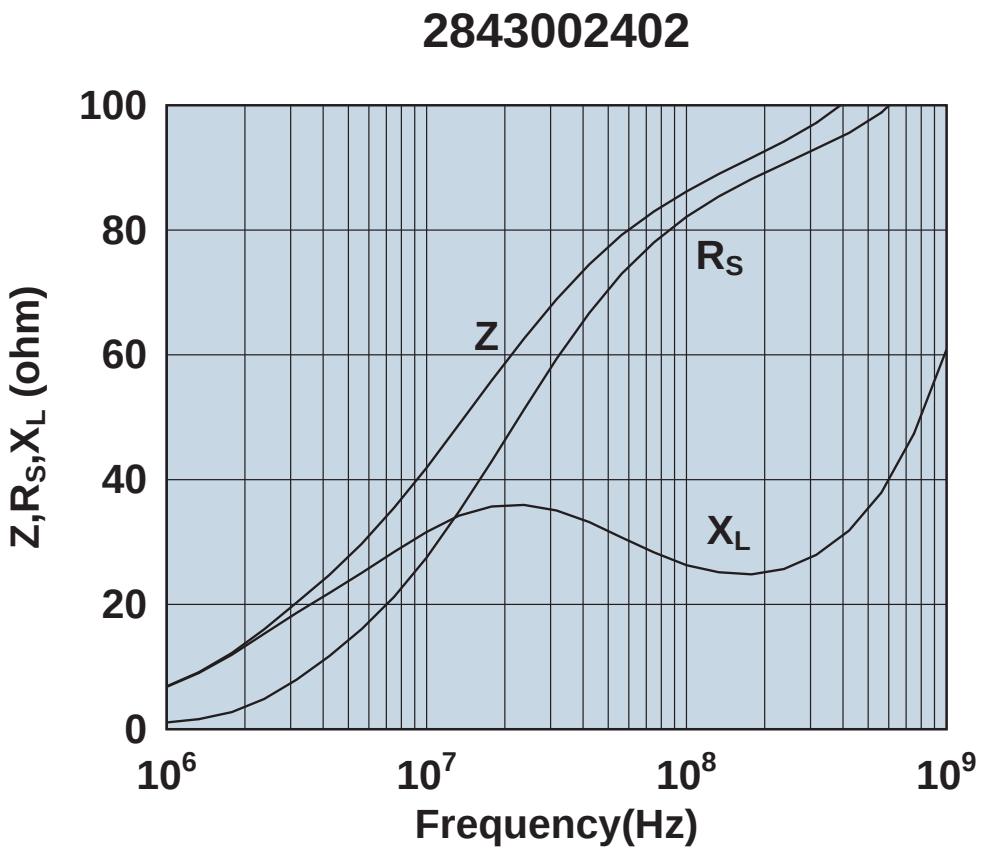
Impedance, reactance, and resistance vs. frequency.



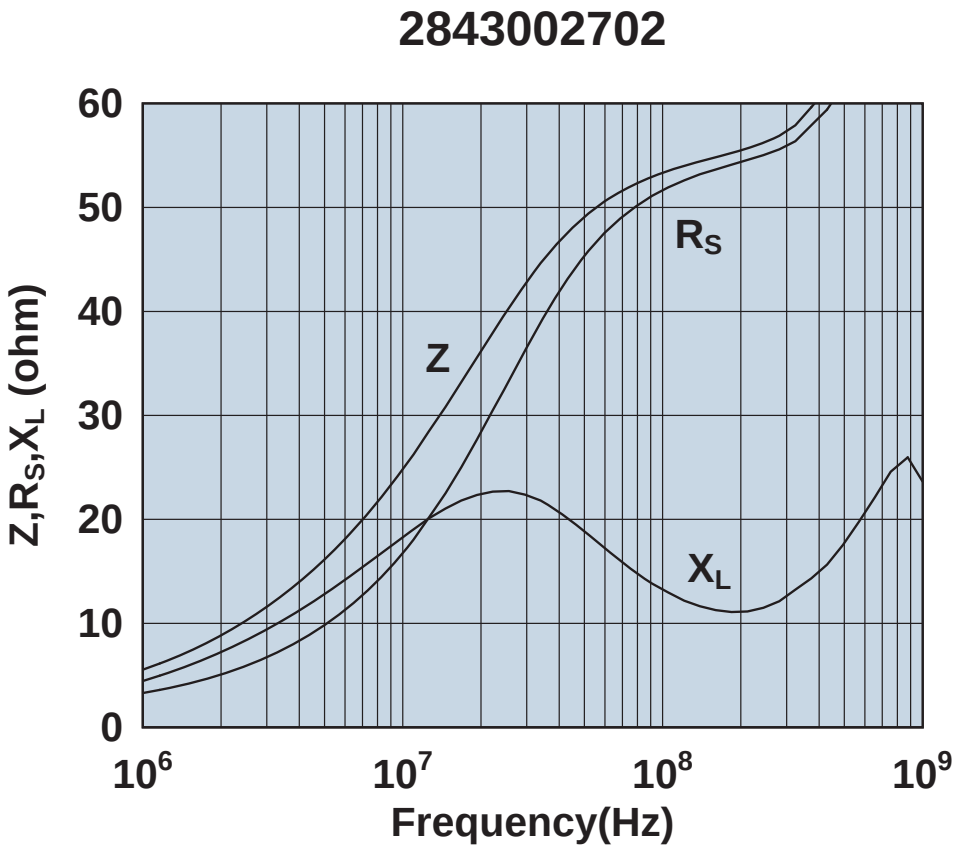
Impedance, reactance, and resistance vs. frequency.



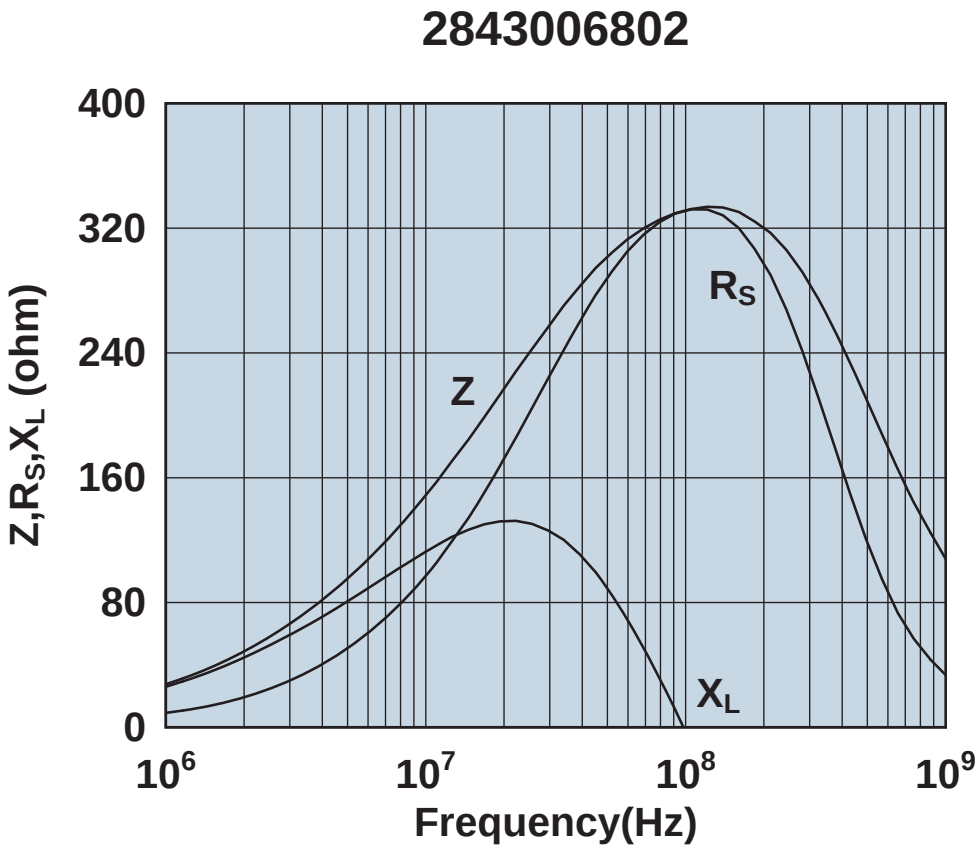
Impedance, reactance, and resistance vs. frequency.



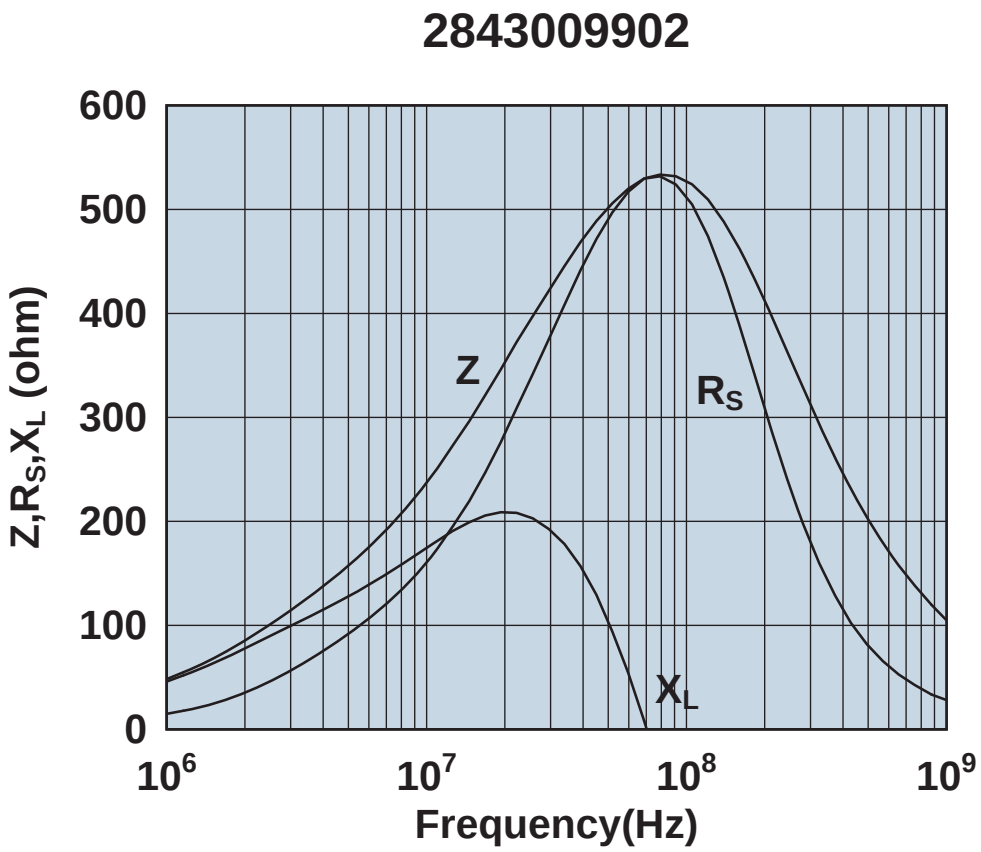
Impedance, reactance, and resistance vs. frequency.



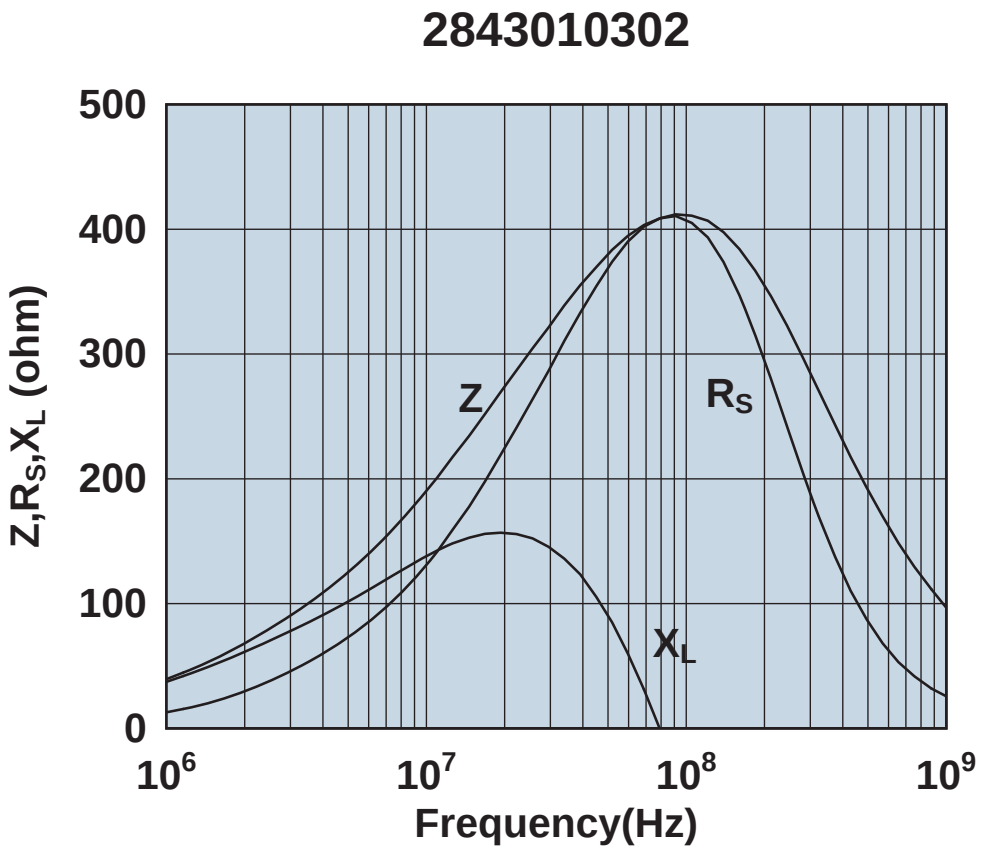
Impedance, reactance, and resistance vs. frequency.



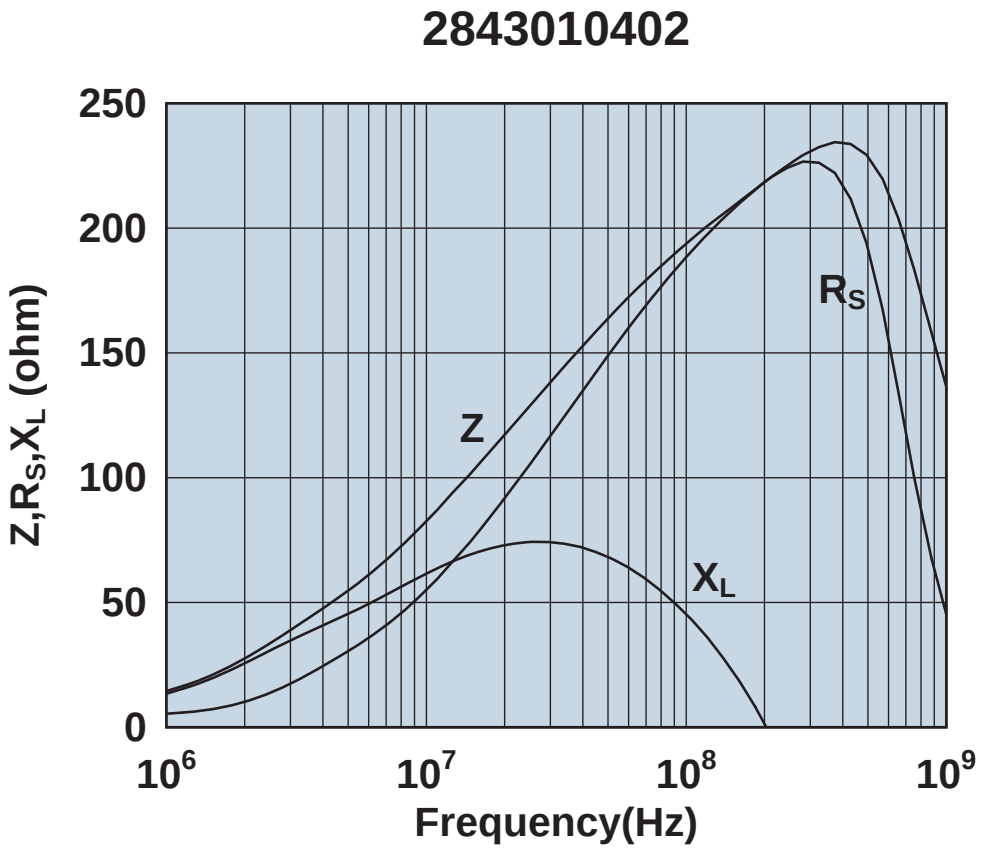
Impedance, reactance, and resistance vs. frequency.



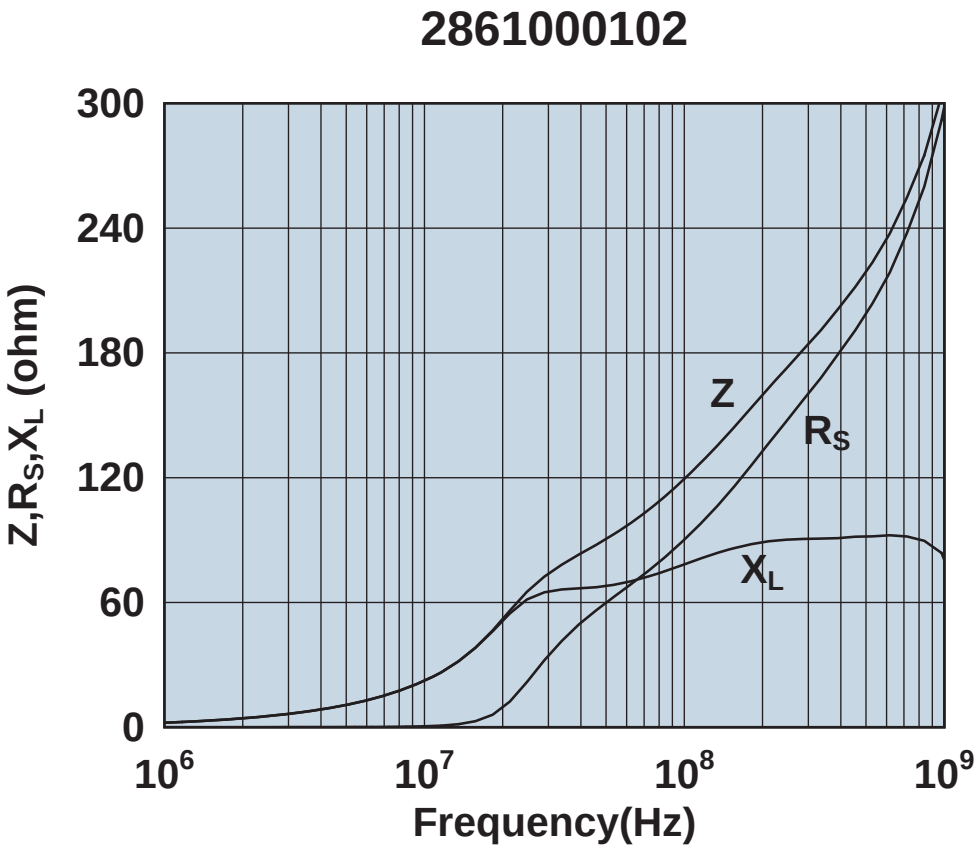
Impedance, reactance, and resistance vs. frequency.



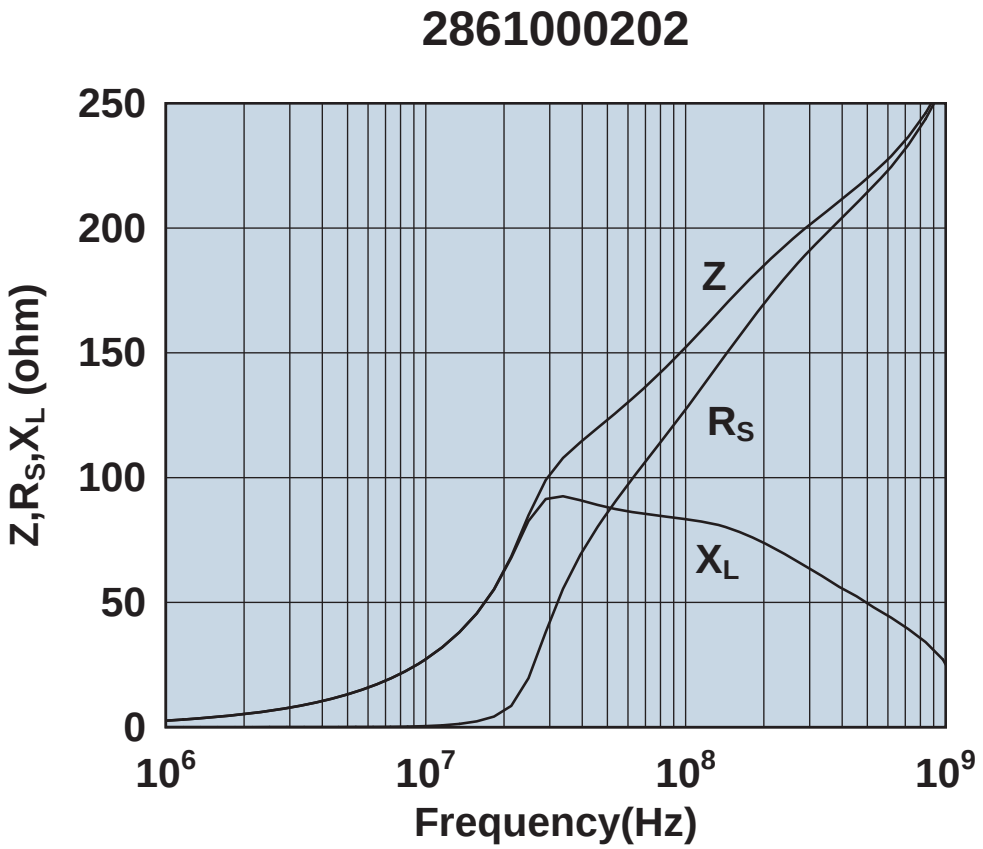
Impedance, reactance, and resistance vs. frequency.



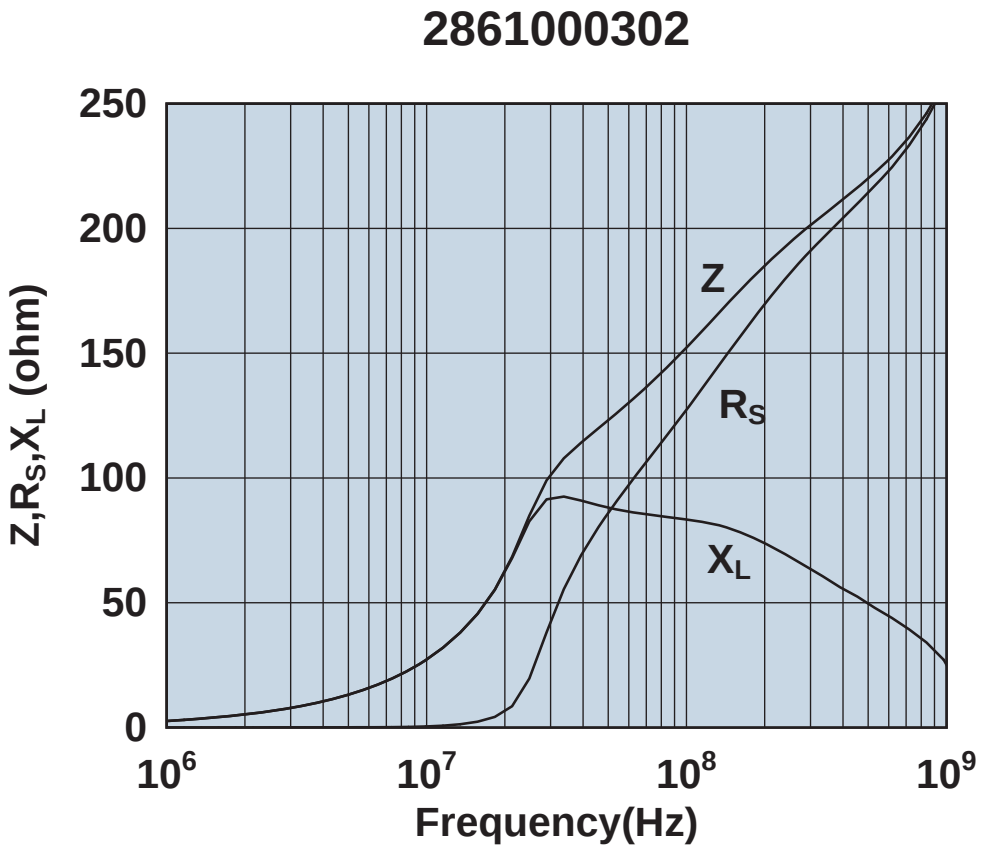
Impedance, reactance, and resistance vs. frequency.



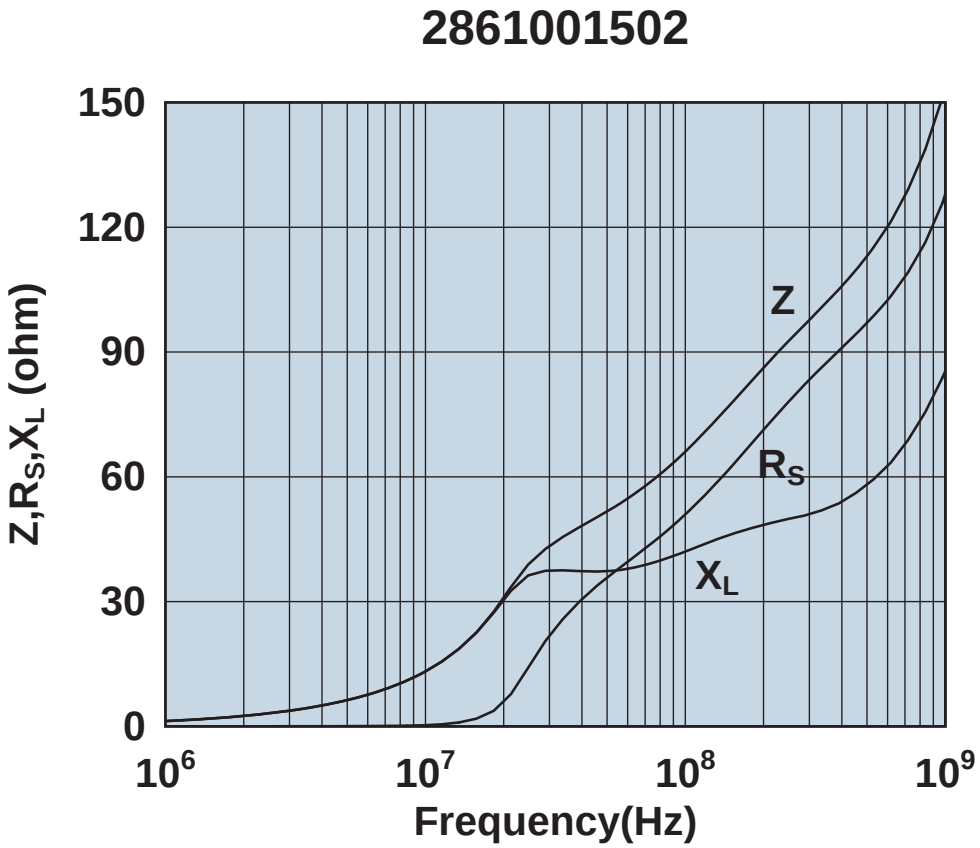
Impedance, reactance, and resistance vs. frequency.



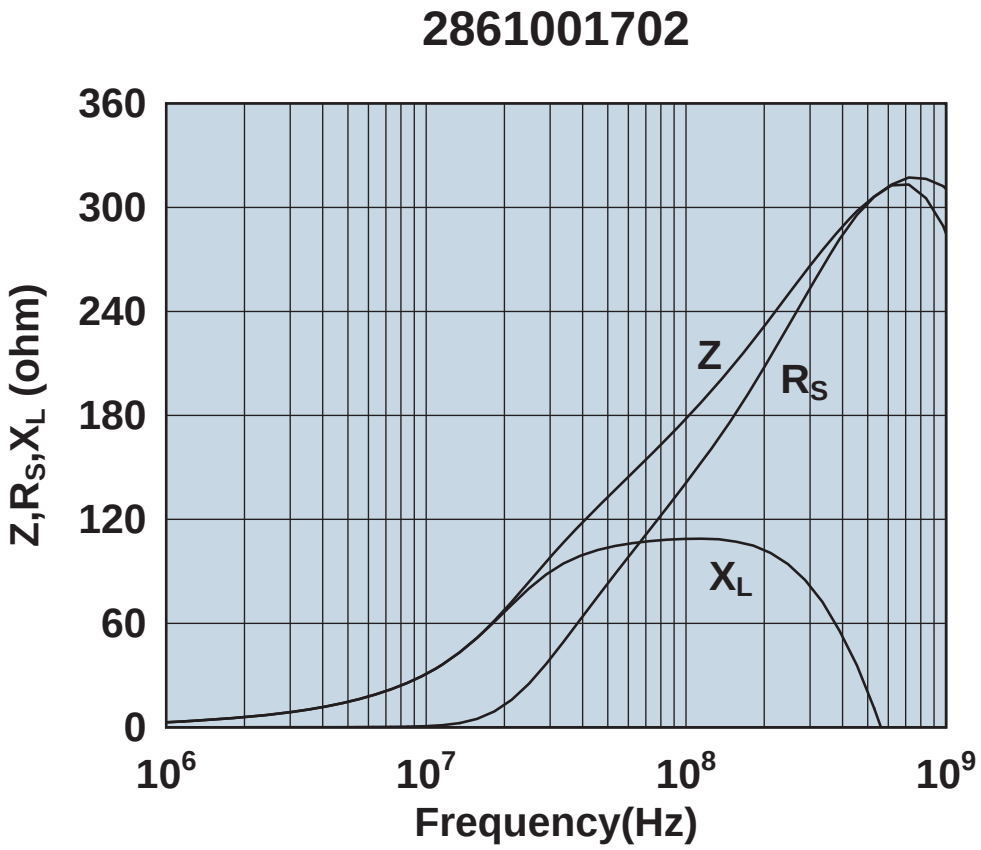
Impedance, reactance, and resistance vs. frequency.



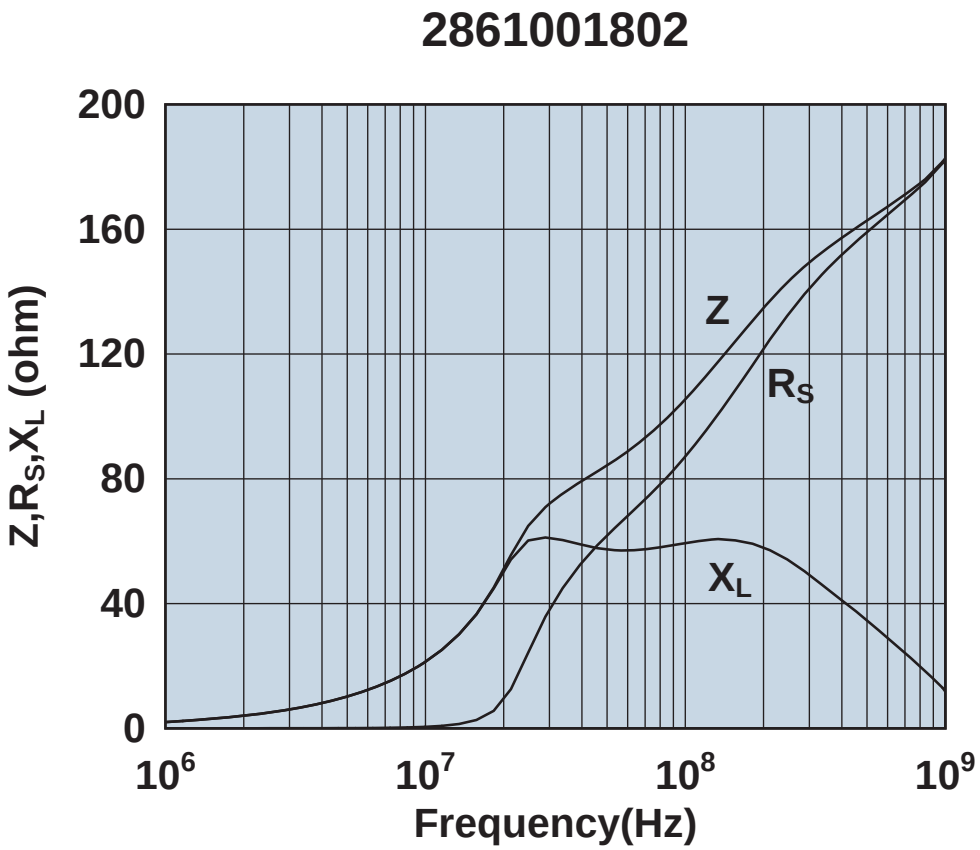
Impedance, reactance, and resistance vs. frequency.



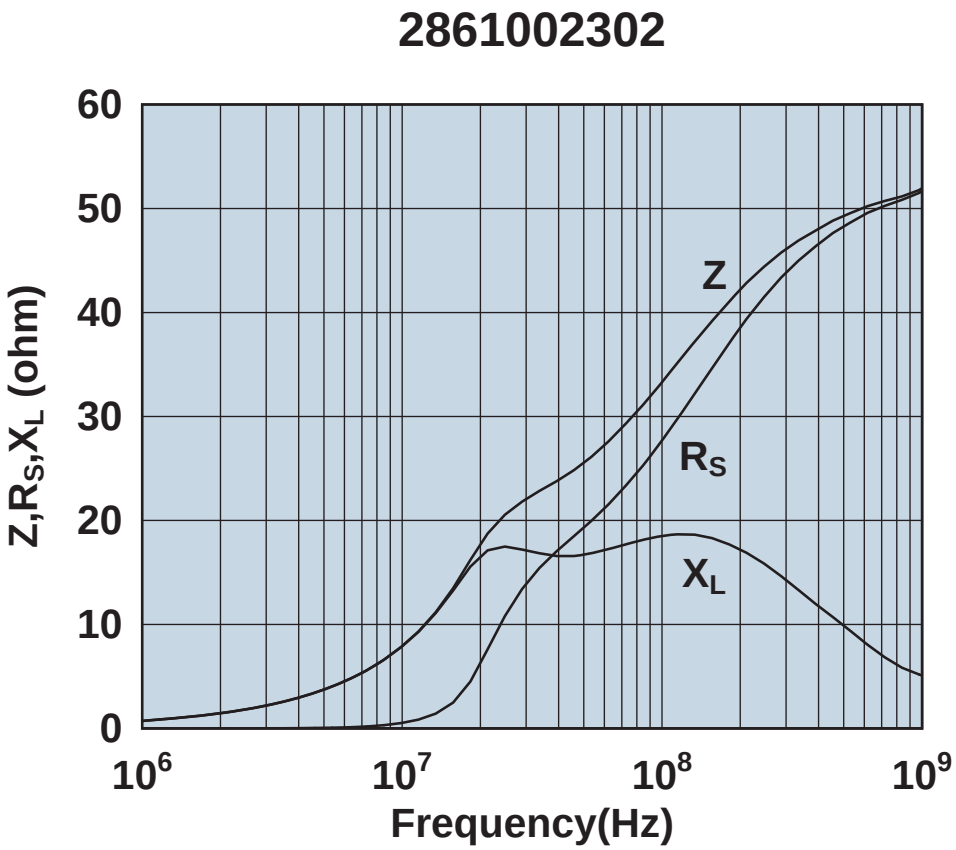
Impedance, reactance, and resistance vs. frequency.



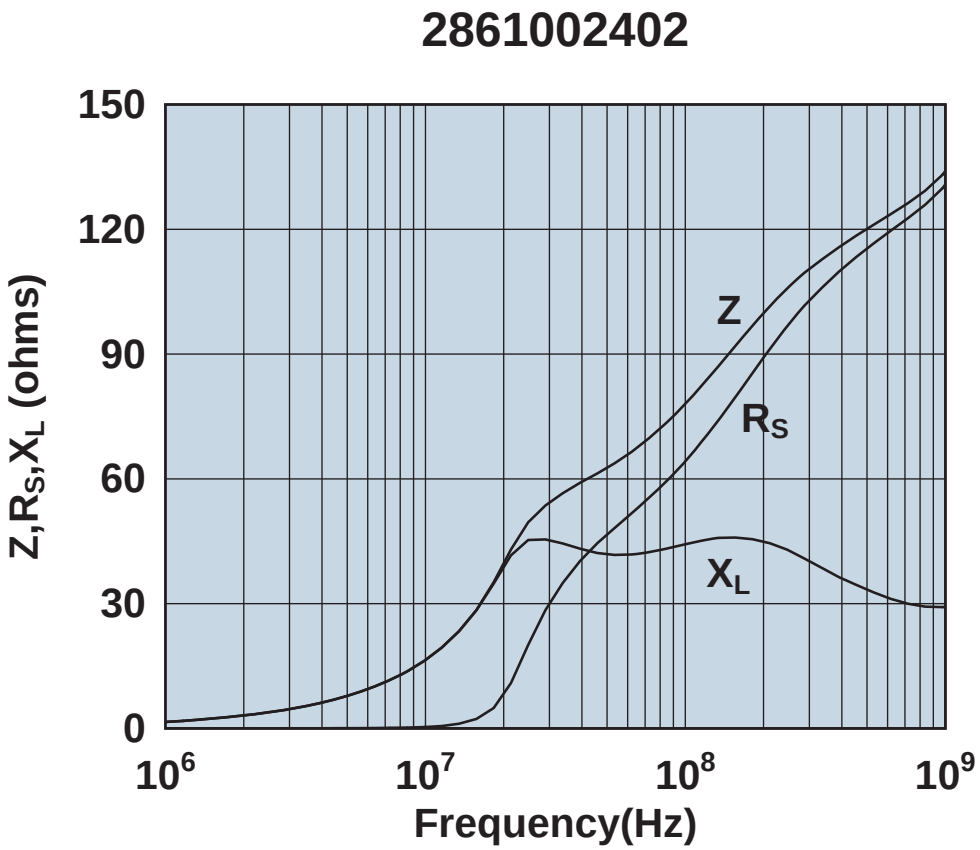
Impedance, reactance, and resistance vs. frequency.



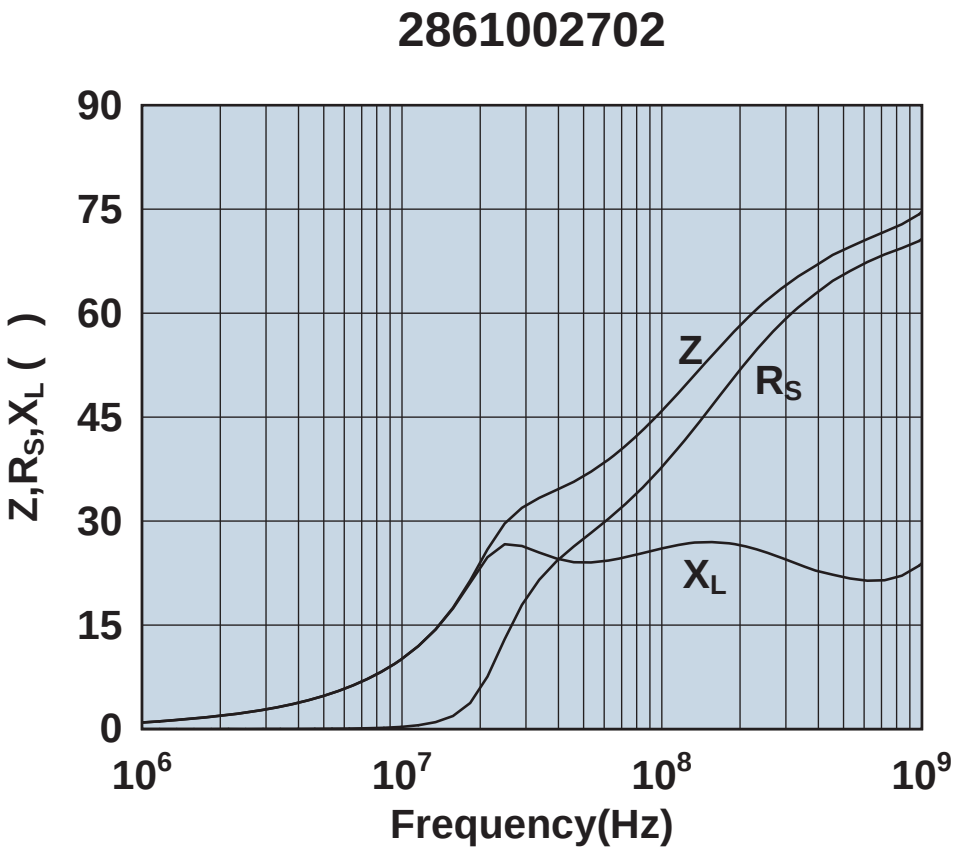
Impedance, reactance, and resistance vs. frequency.



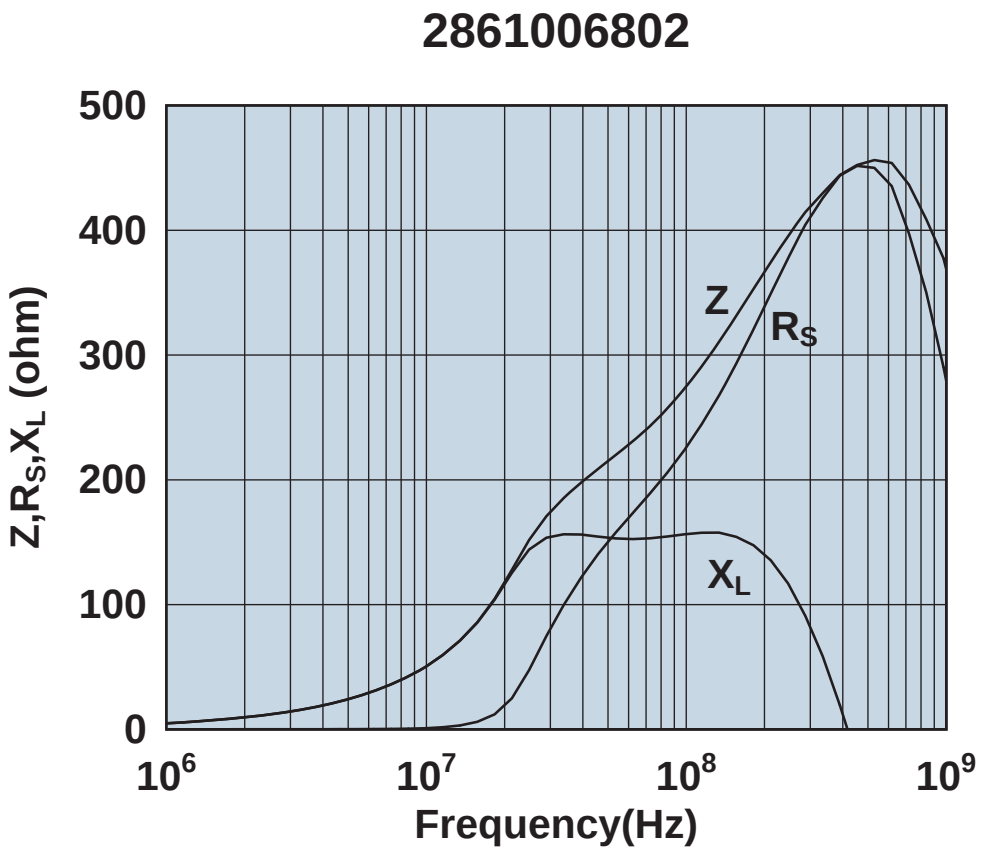
Impedance, reactance, and resistance vs. frequency.



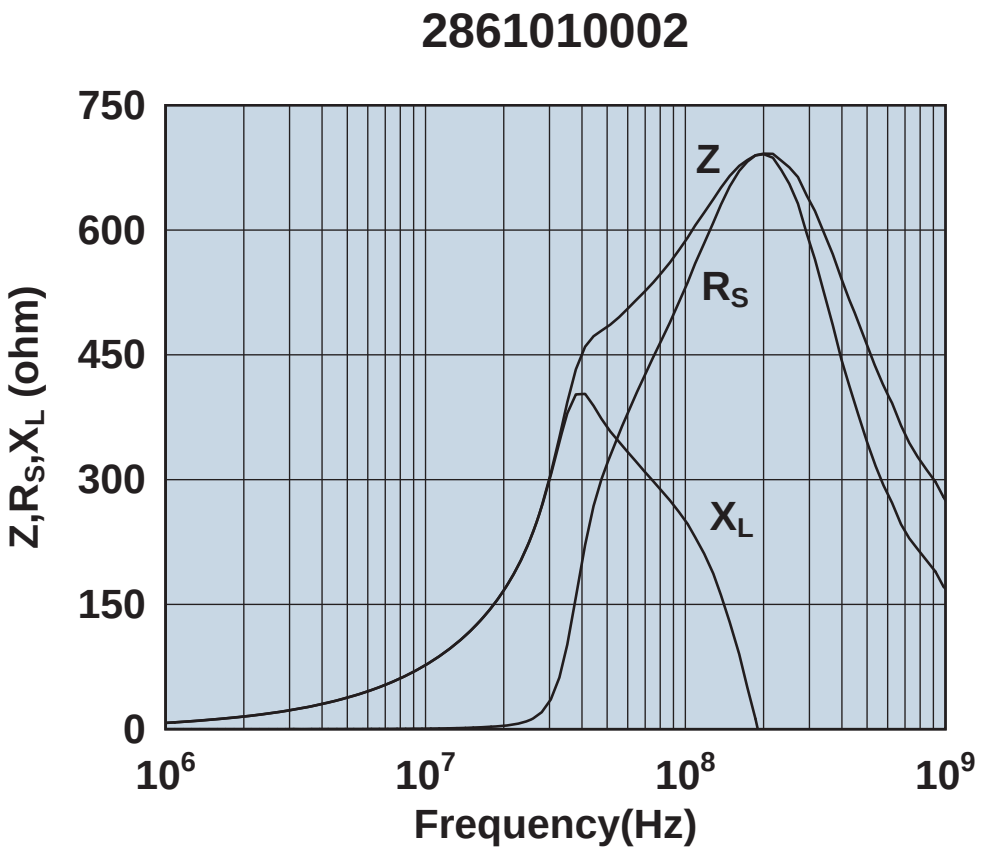
Impedance, reactance, and resistance vs. frequency.



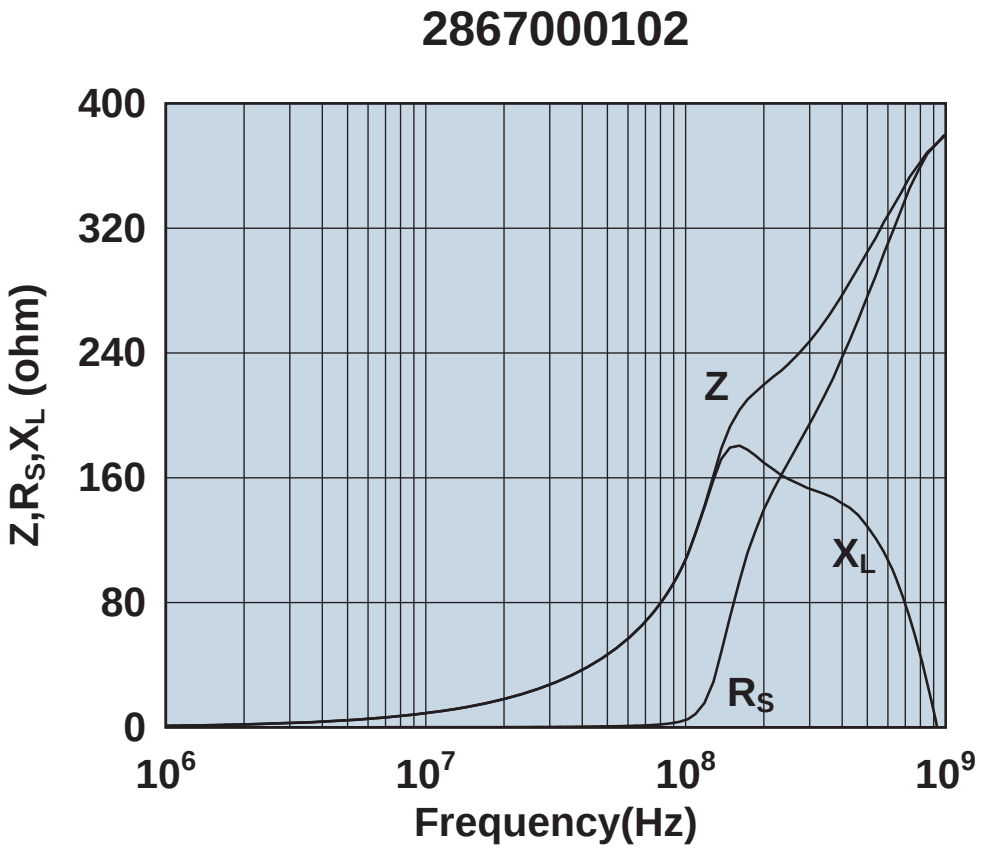
Impedance, reactance, and resistance vs. frequency.



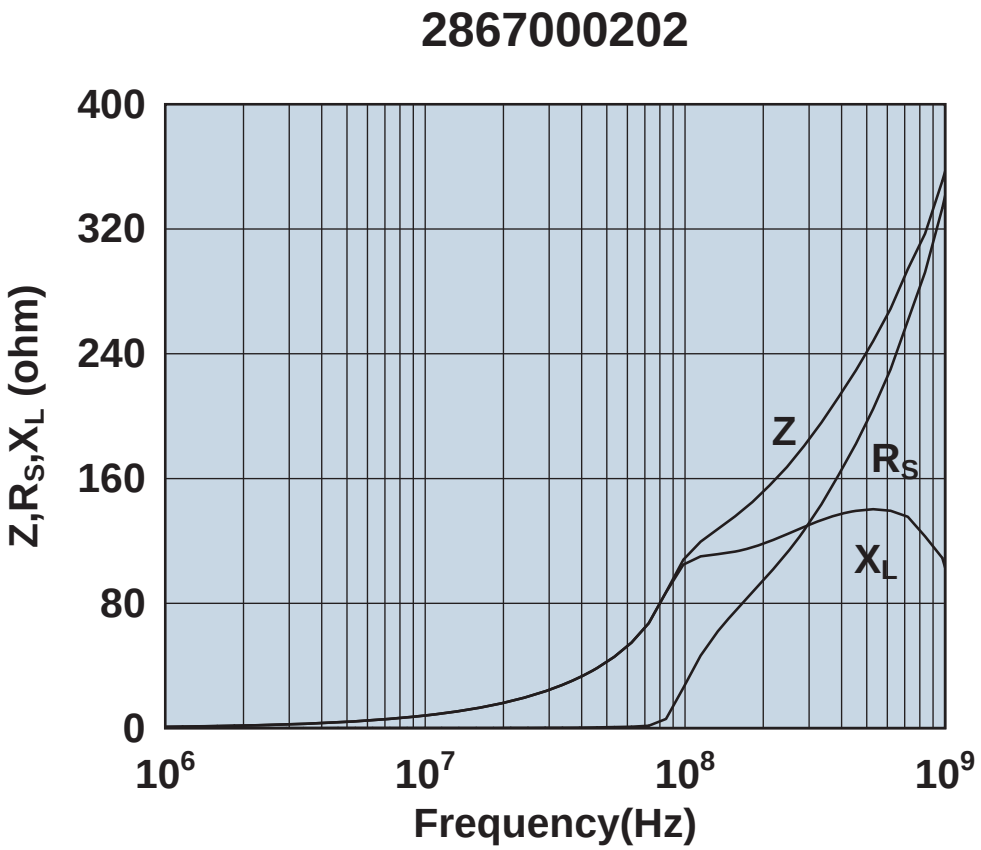
Impedance, reactance, and resistance vs. frequency.



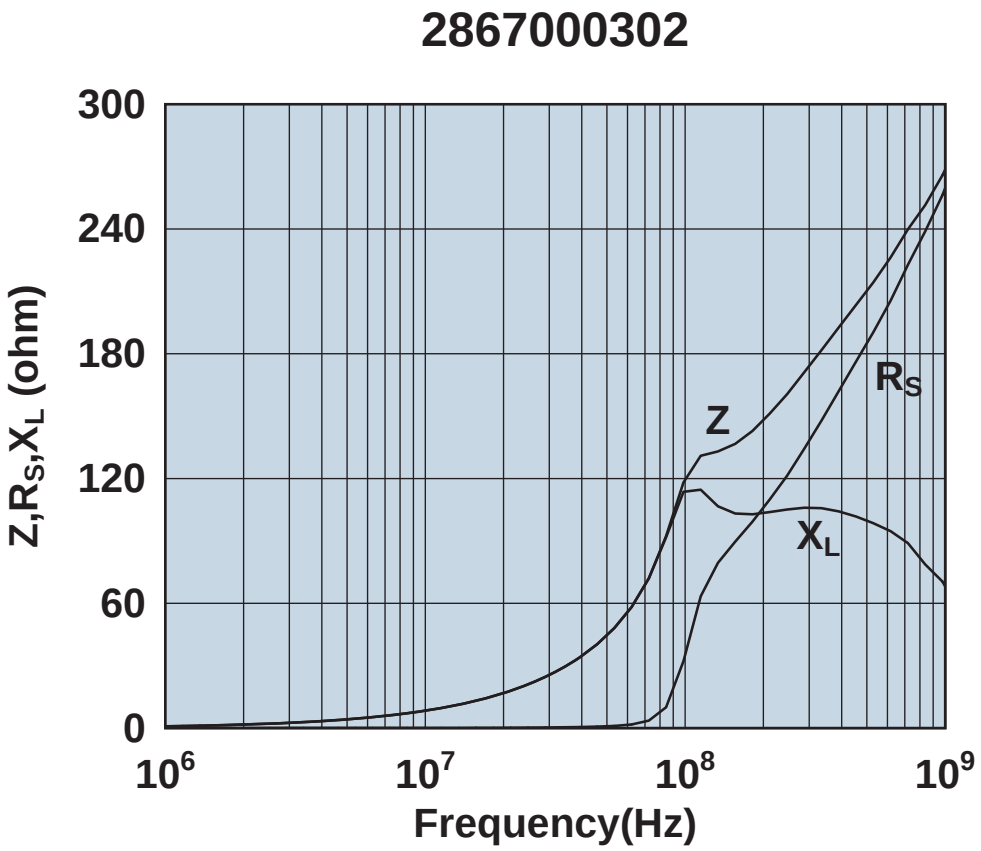
Impedance, reactance, and resistance vs. frequency.



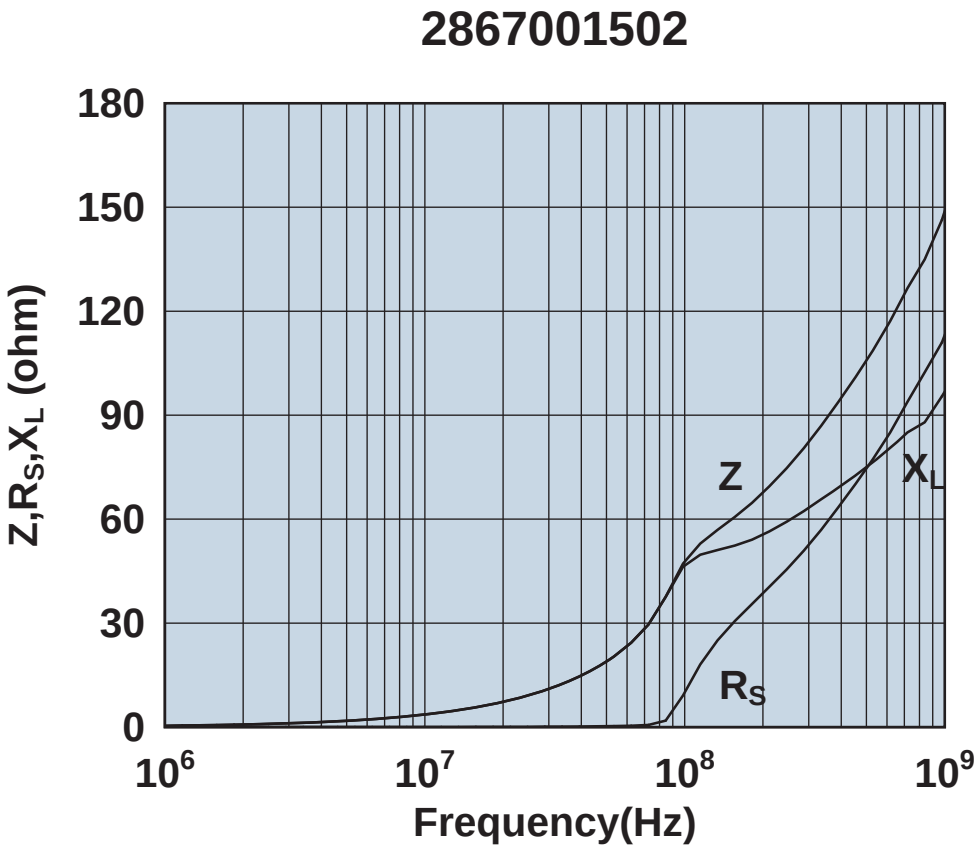
Impedance, reactance, and resistance vs. frequency.



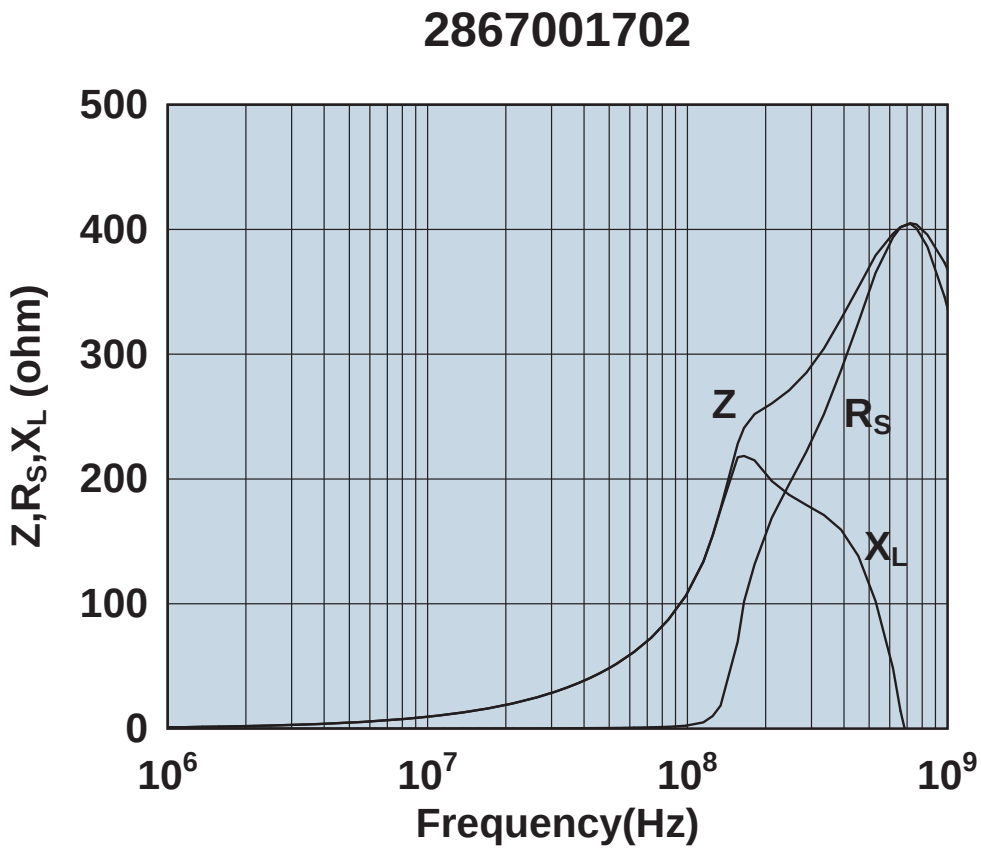
Impedance, reactance, and resistance vs. frequency.



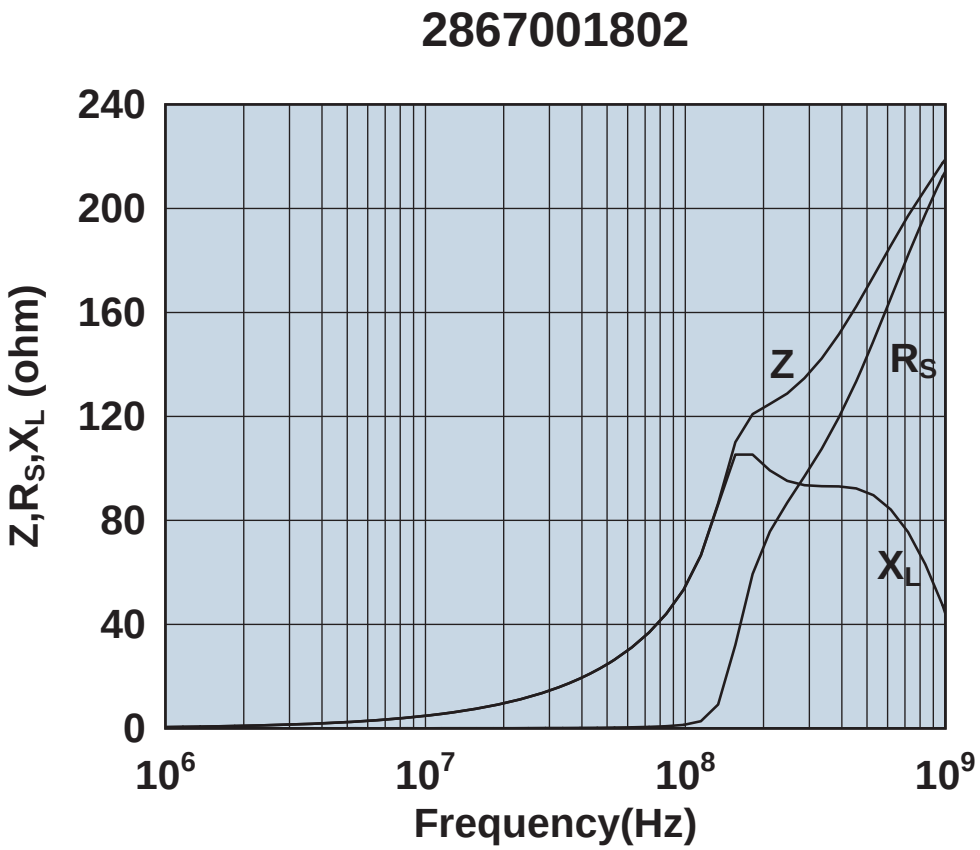
Impedance, reactance, and resistance vs. frequency.



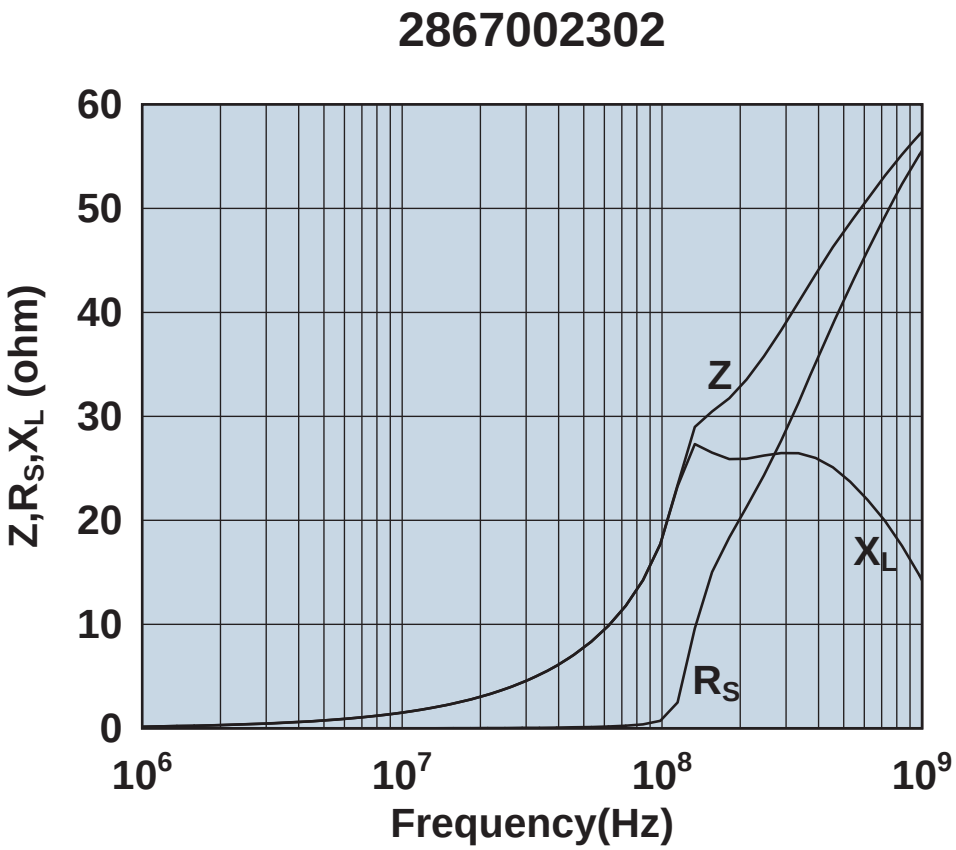
Impedance, reactance, and resistance vs. frequency.



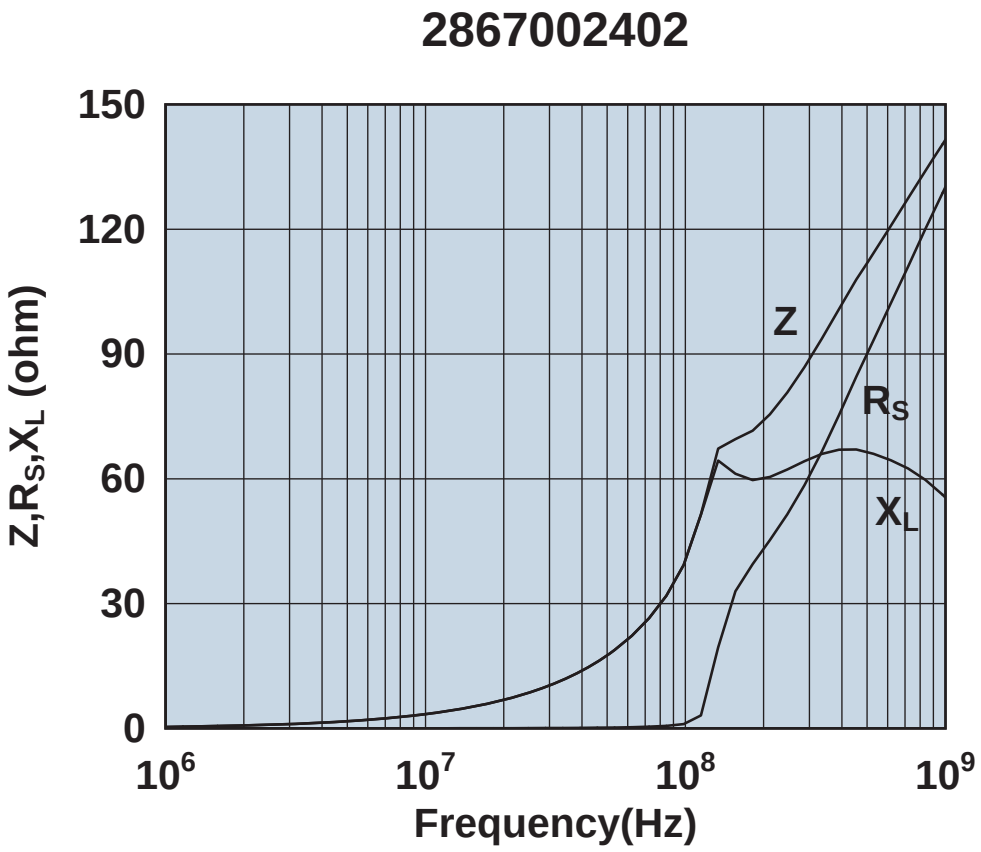
Impedance, reactance, and resistance vs. frequency.



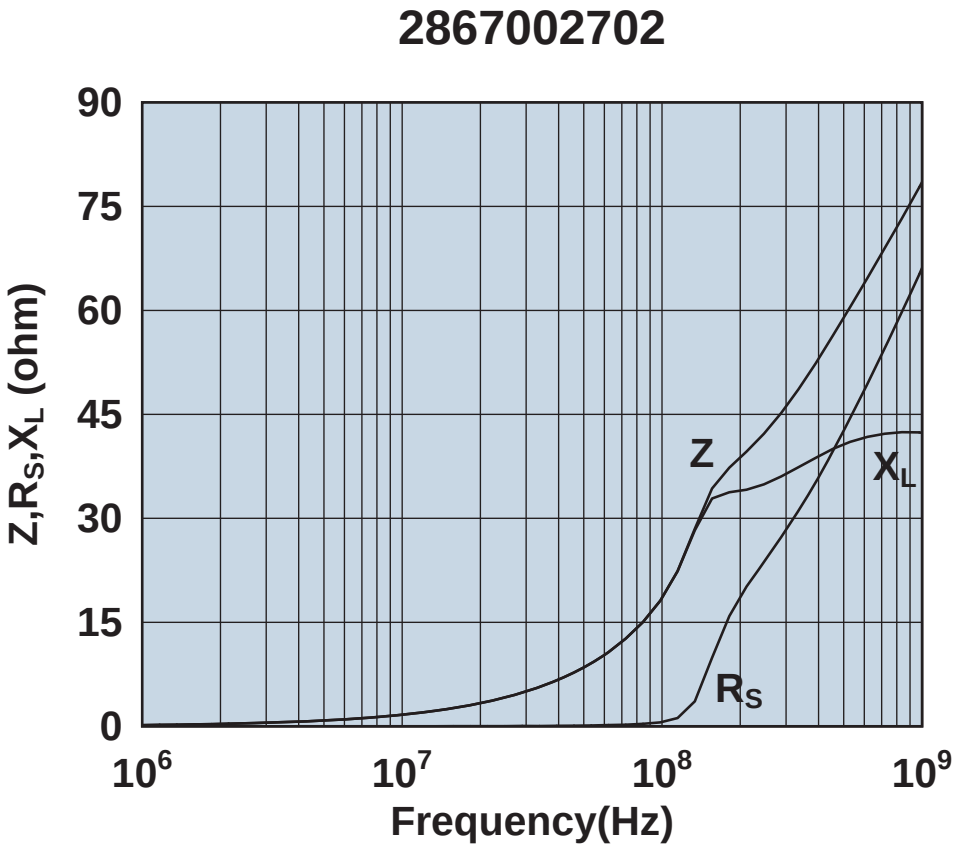
Impedance, reactance, and resistance vs. frequency.



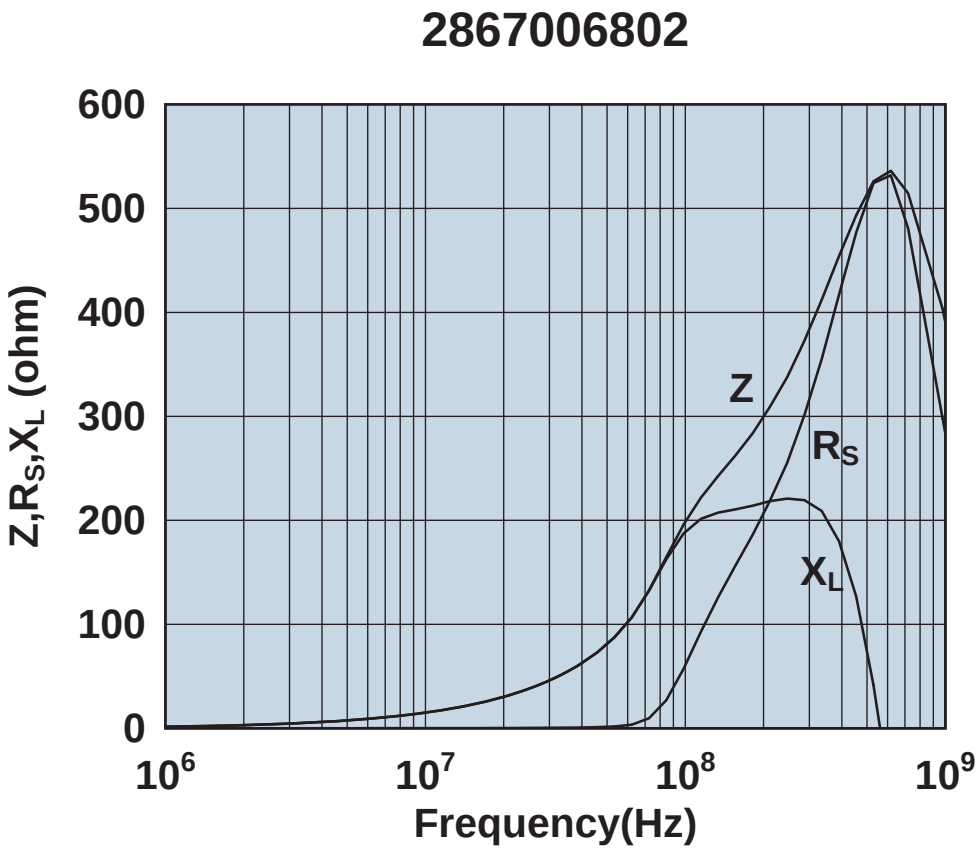
Impedance, reactance, and resistance vs. frequency.



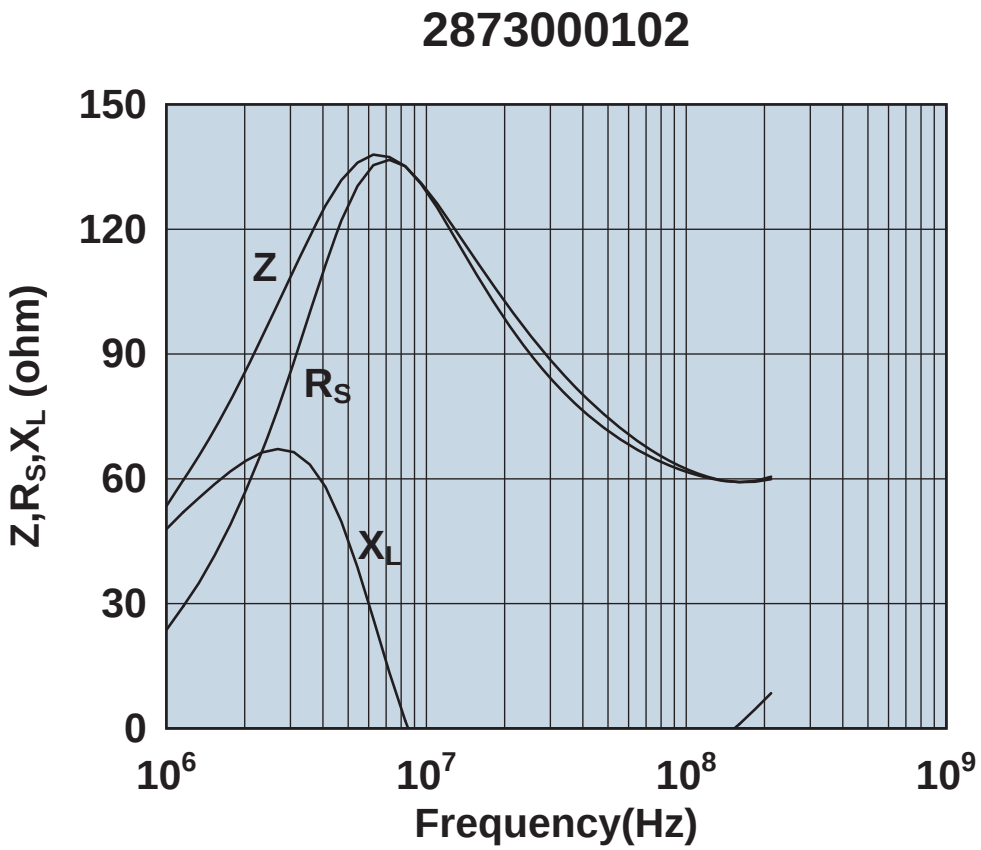
Impedance, reactance, and resistance vs. frequency.



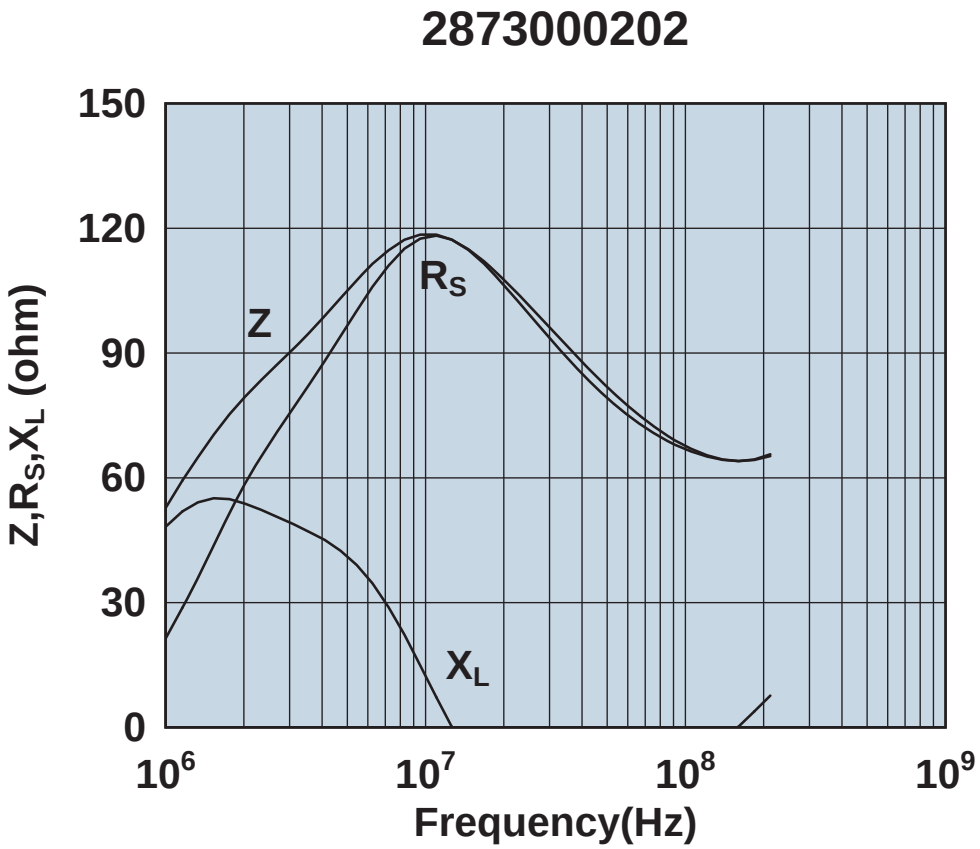
Impedance, reactance, and resistance vs. frequency.



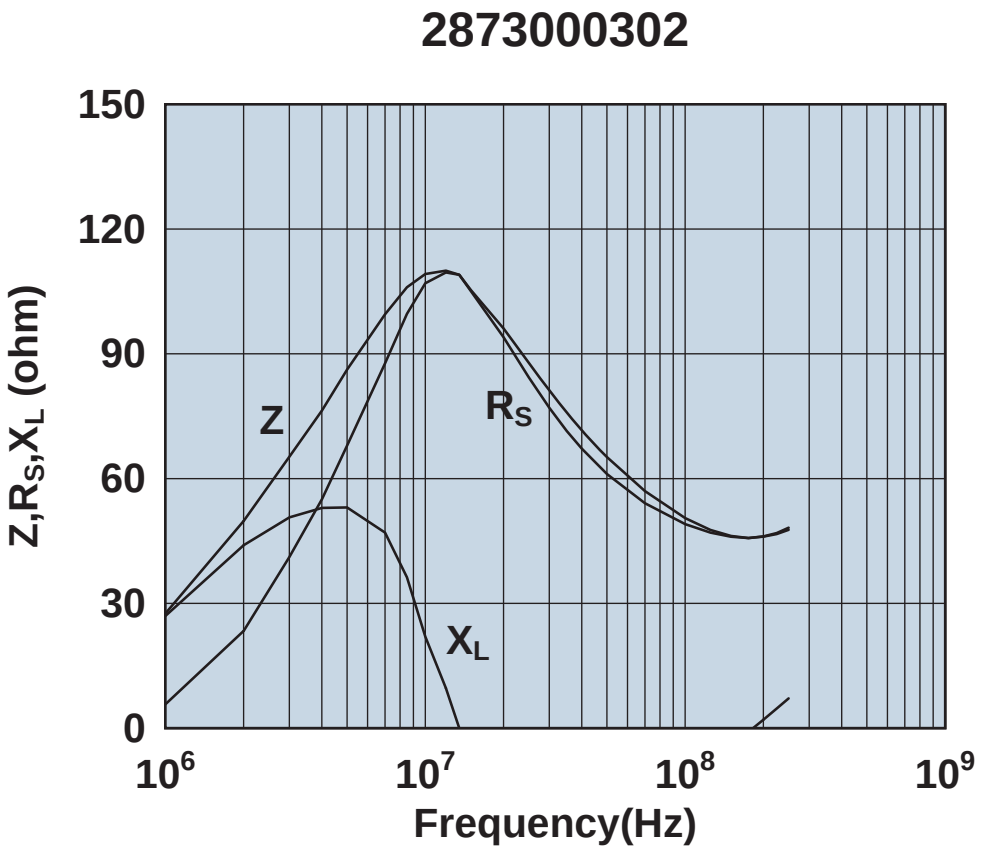
Impedance, reactance, and resistance vs. frequency.



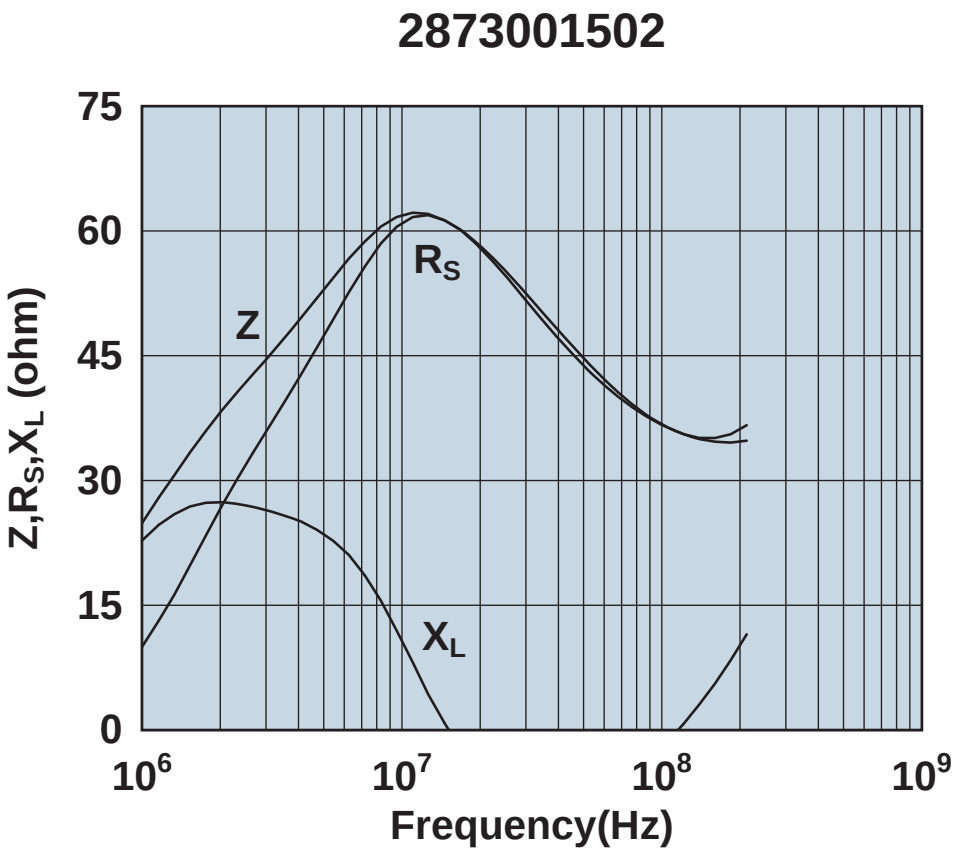
Impedance, reactance, and resistance vs. frequency.



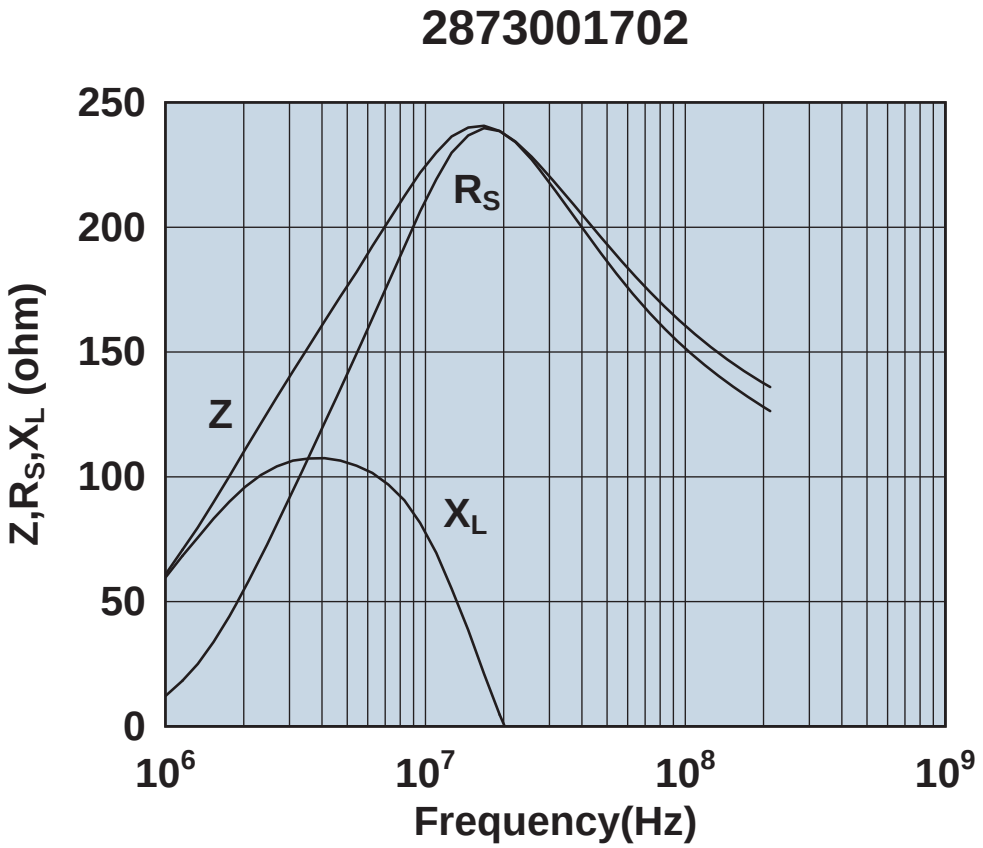
Impedance, reactance, and resistance vs. frequency.



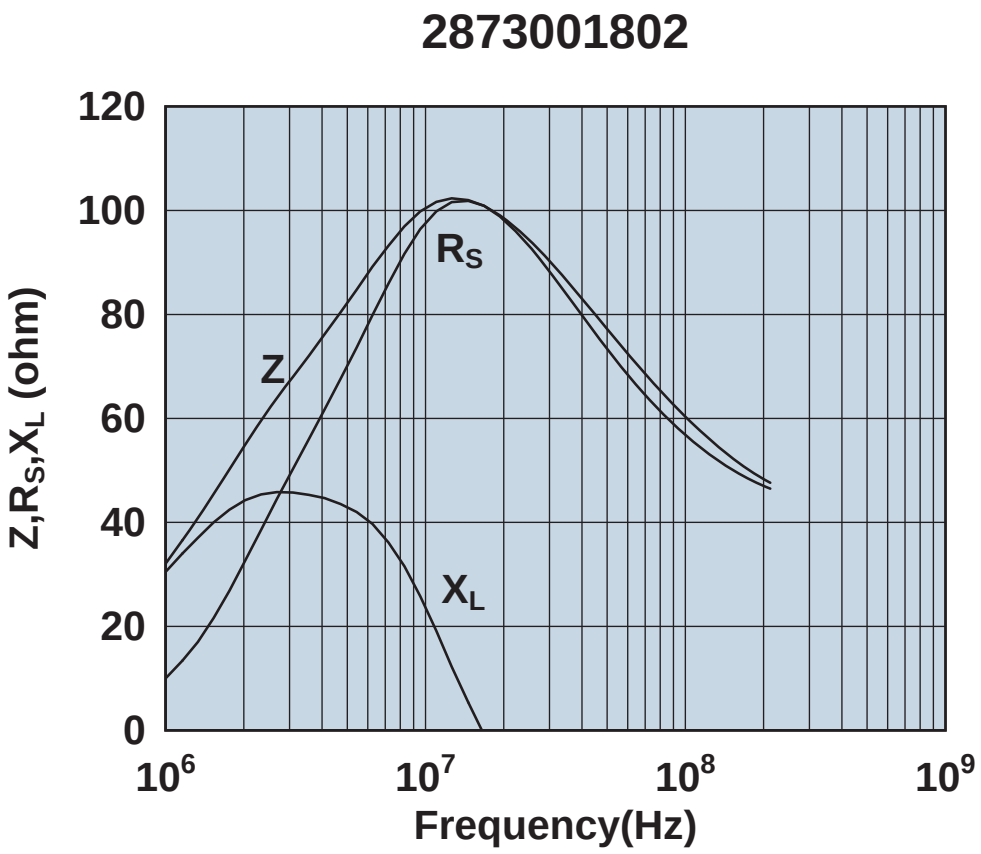
Impedance, reactance, and resistance vs. frequency.



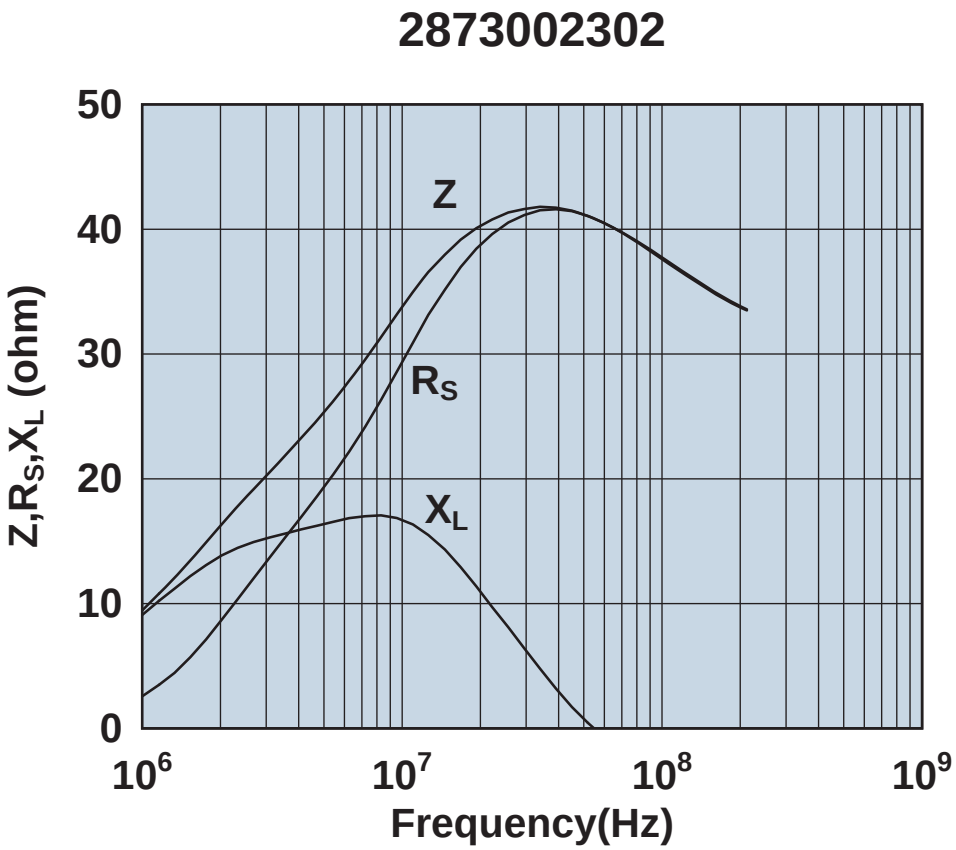
Impedance, reactance, and resistance vs. frequency.



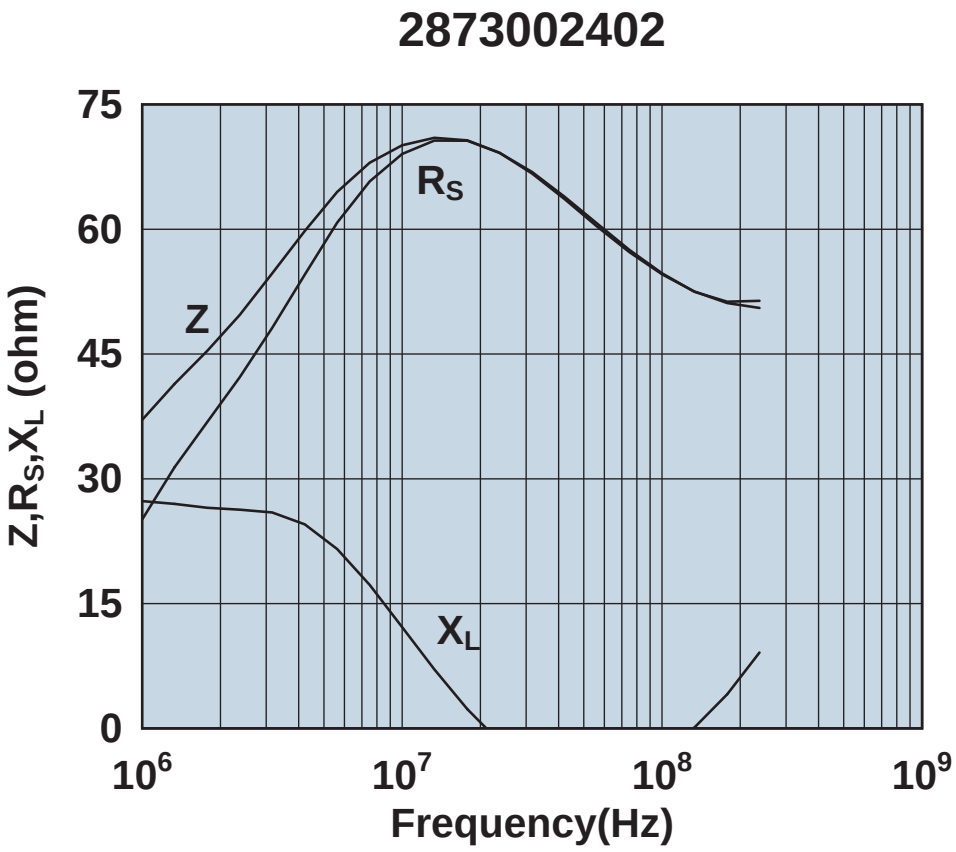
Impedance, reactance, and resistance vs. frequency.



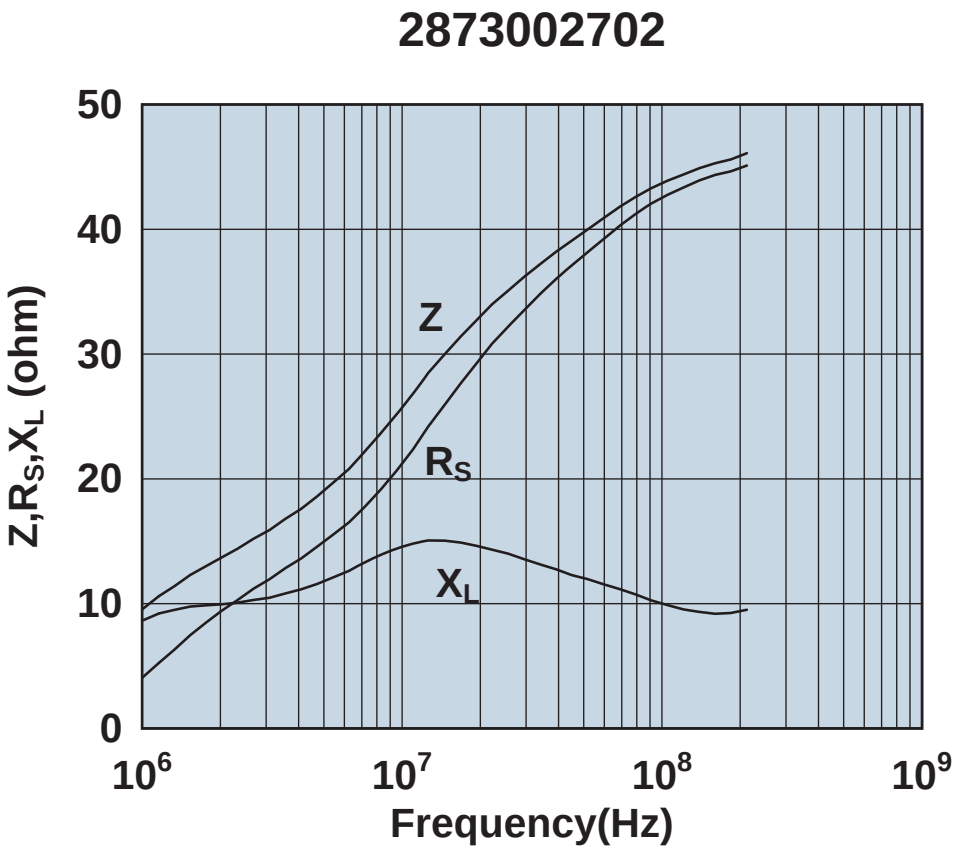
Impedance, reactance, and resistance vs. frequency.



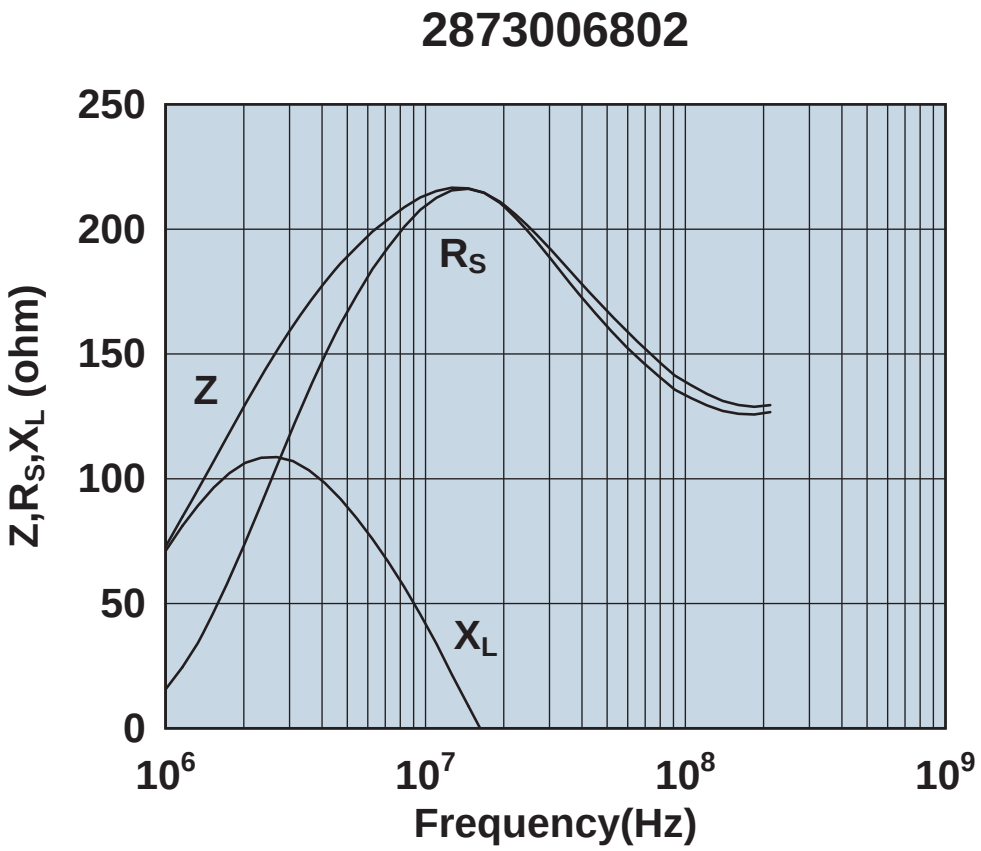
Impedance, reactance, and resistance vs. frequency.



Impedance, reactance, and resistance vs. frequency.

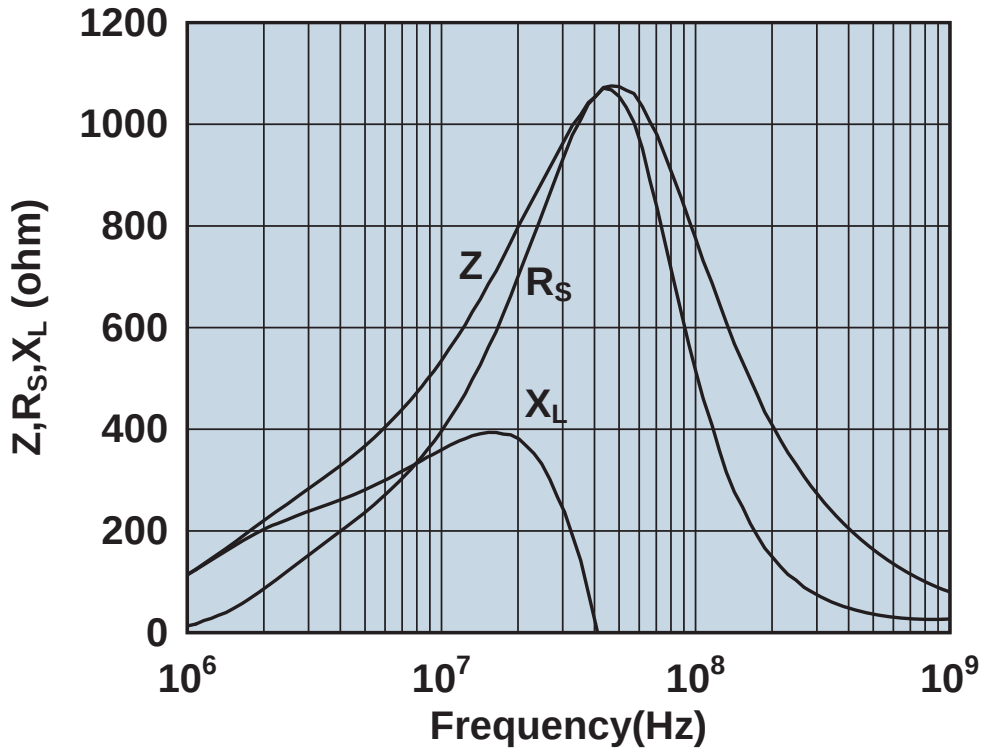


Impedance, reactance, and resistance vs. frequency.

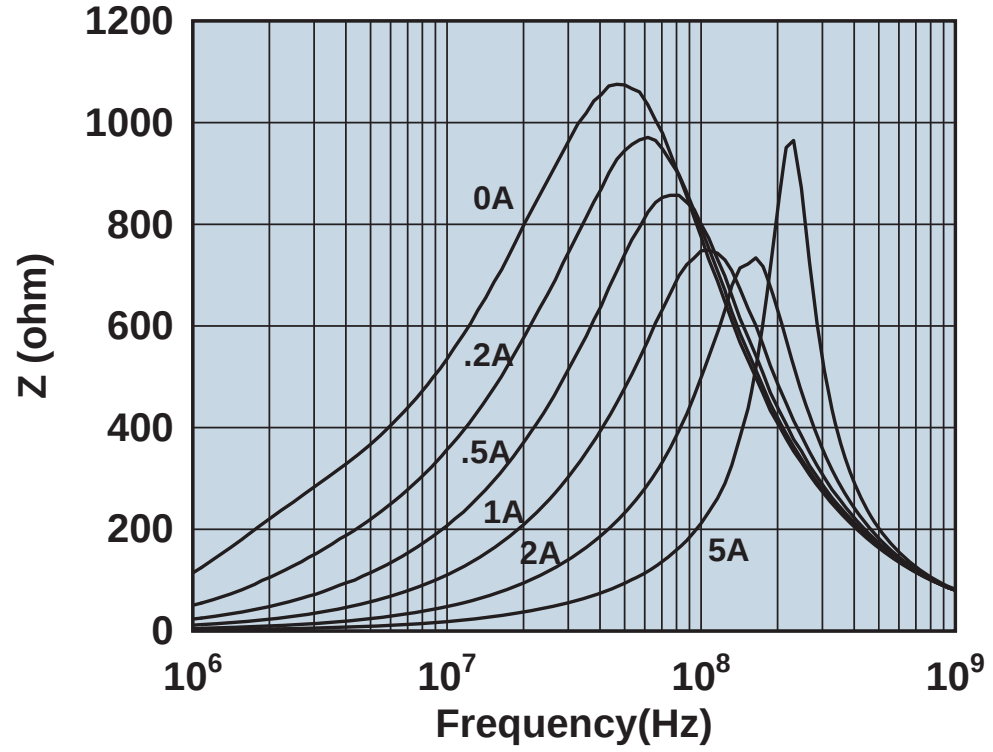


Impedance, reactance, and resistance vs. frequency.

2944666631

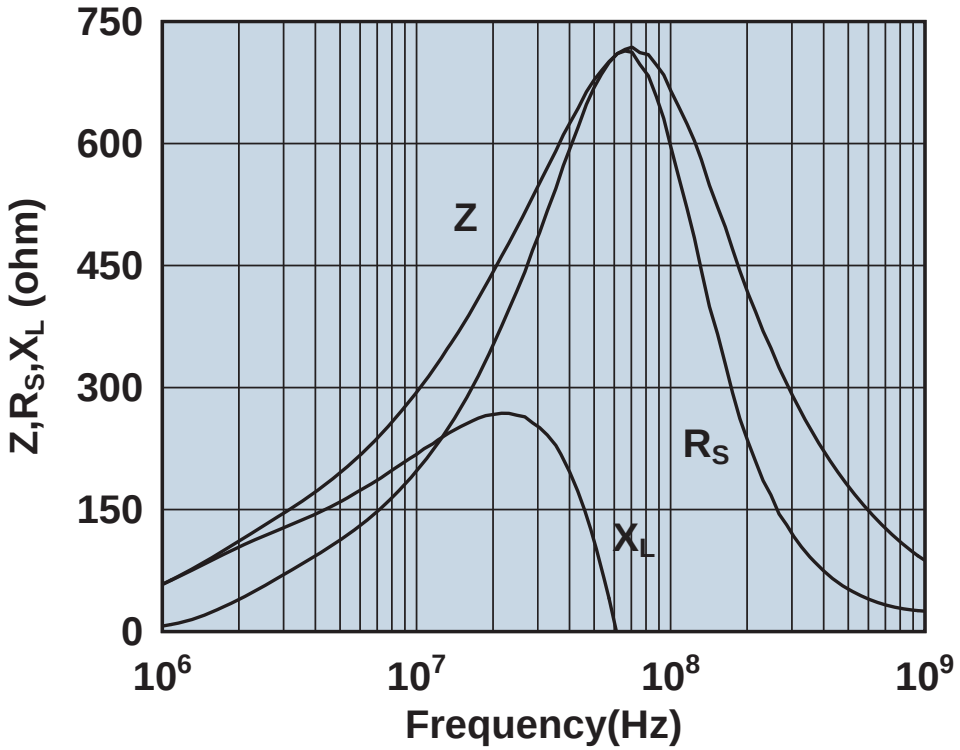


Impedance, reactance, and resistance vs. frequency.

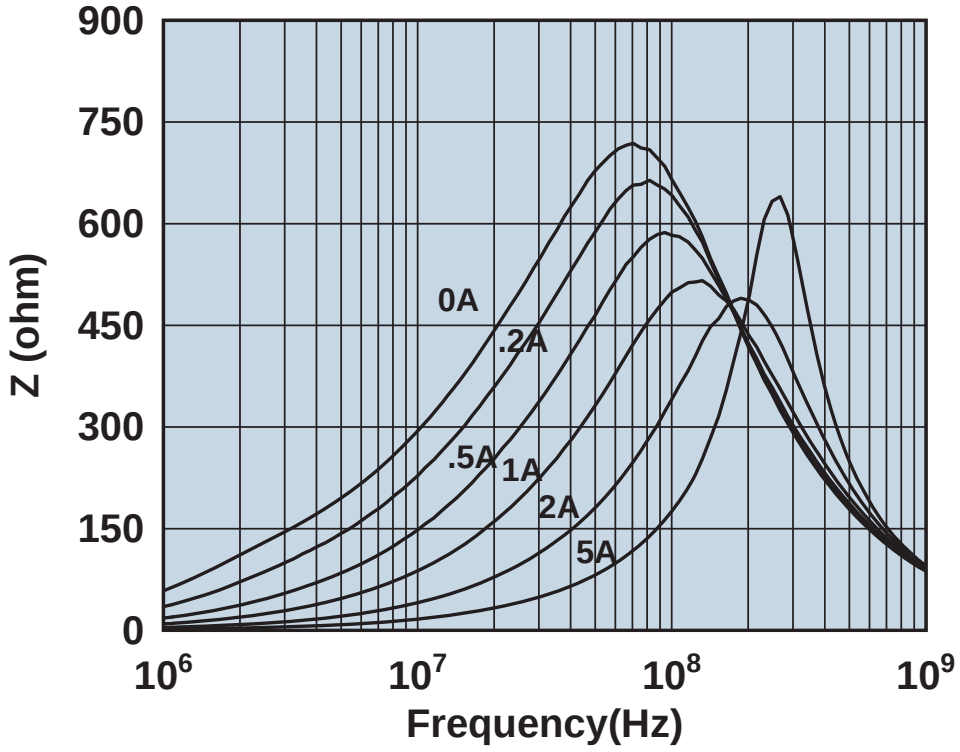


Impedance vs. frequency with dc bias.

2944666651

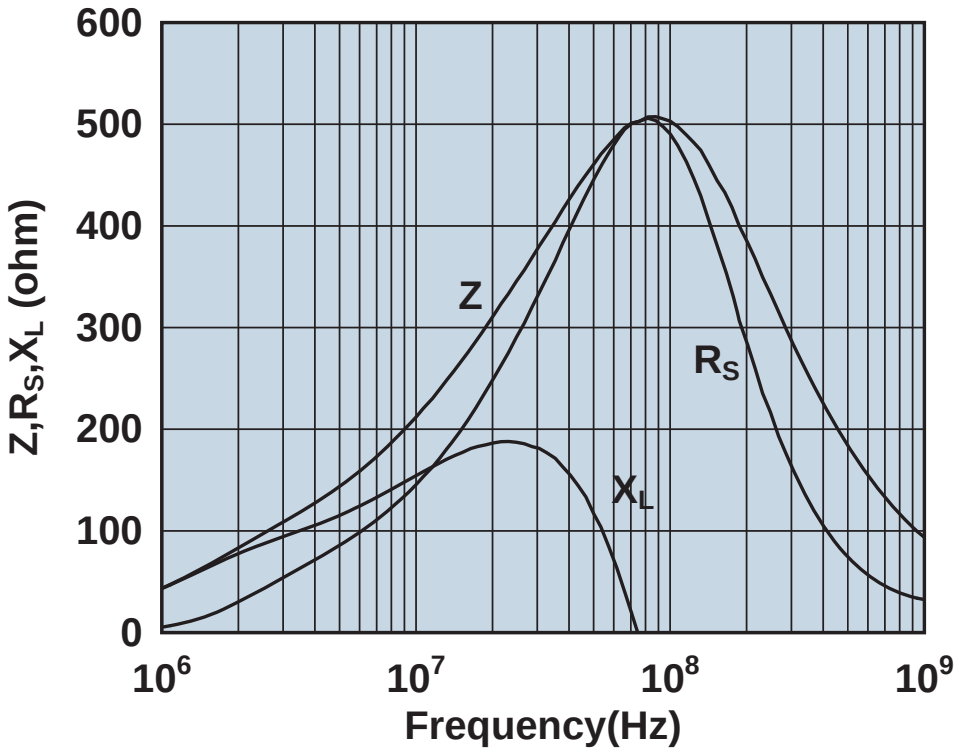


Impedance, reactance, and resistance vs. frequency.

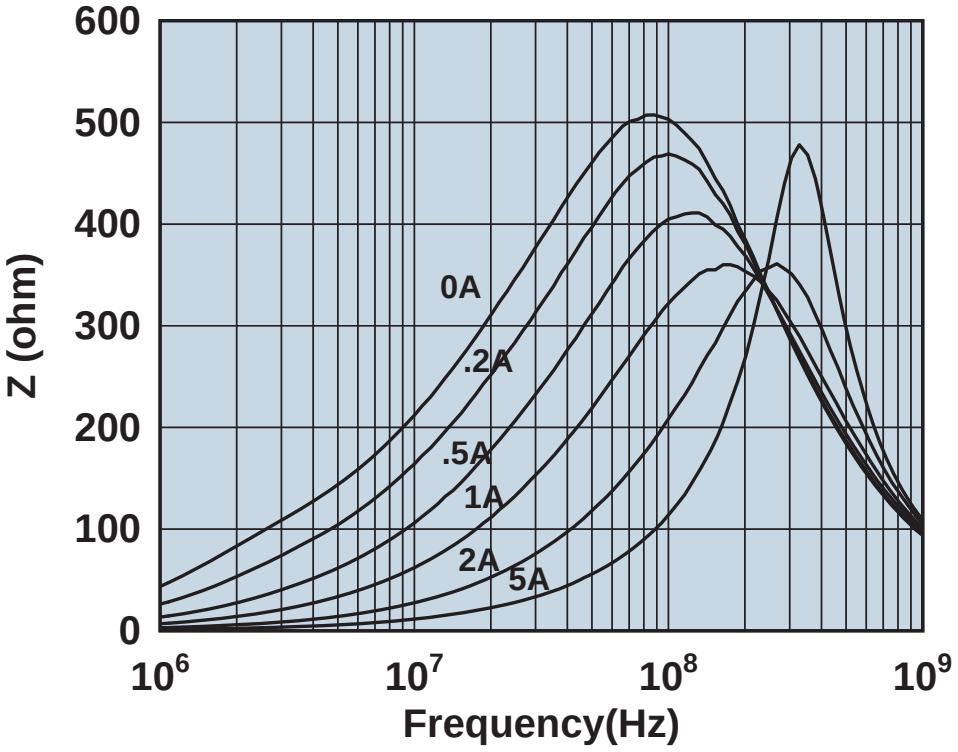


Impedance vs. frequency with dc bias.

2944666661

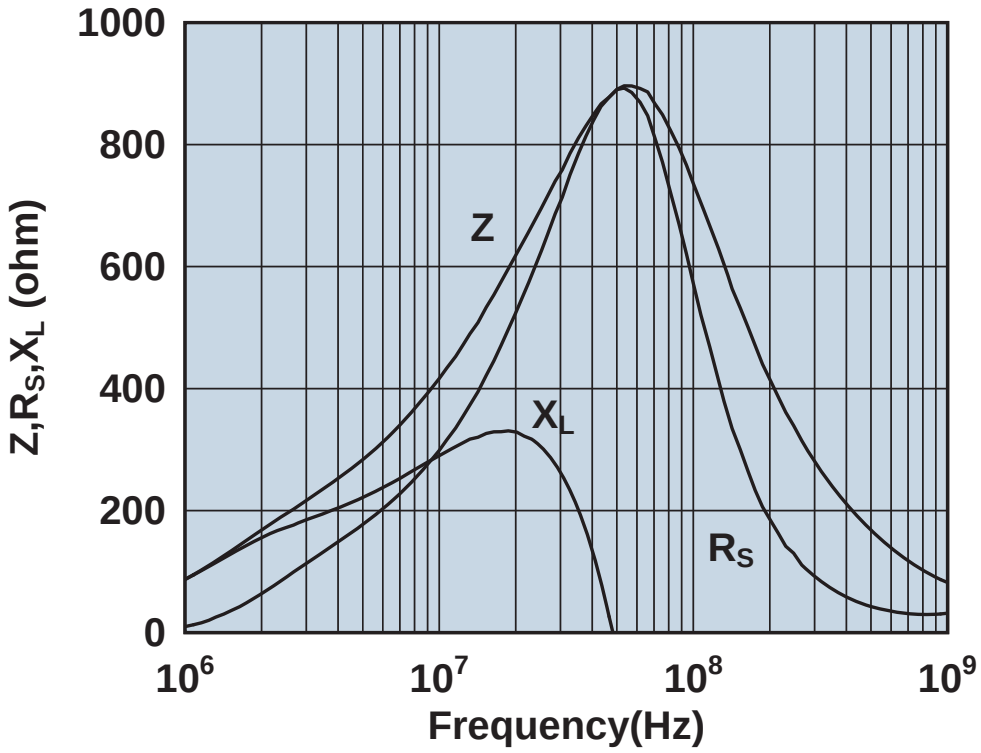


Impedance, reactance, and resistance vs. frequency.

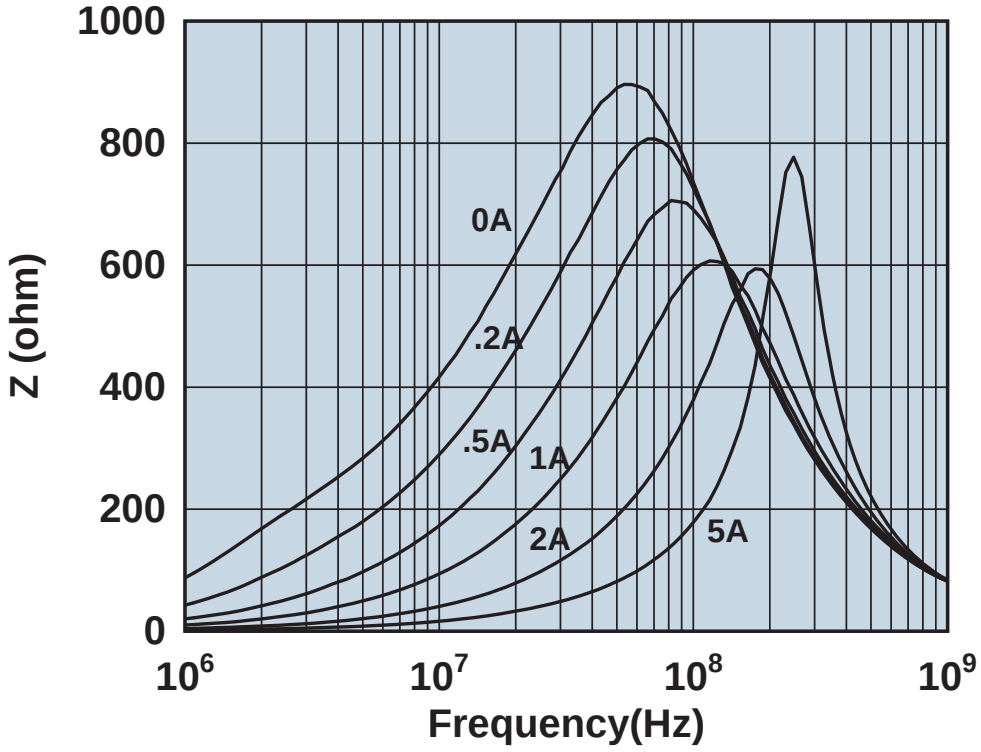


Impedance vs. frequency with dc bias.

2944666671

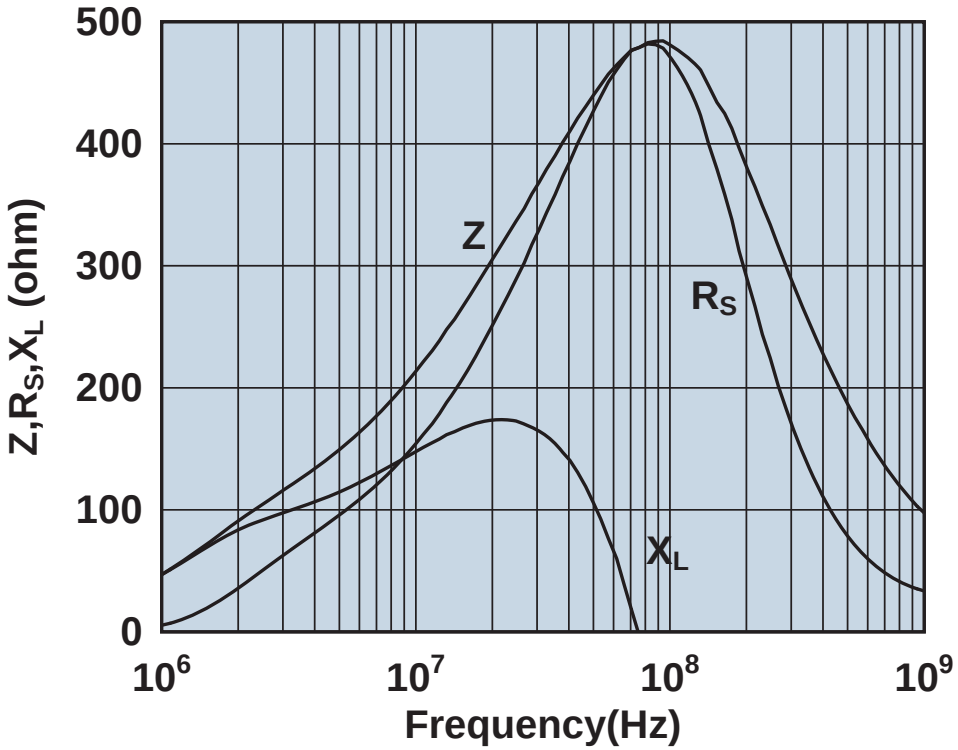


Impedance, reactance, and resistance vs. frequency.

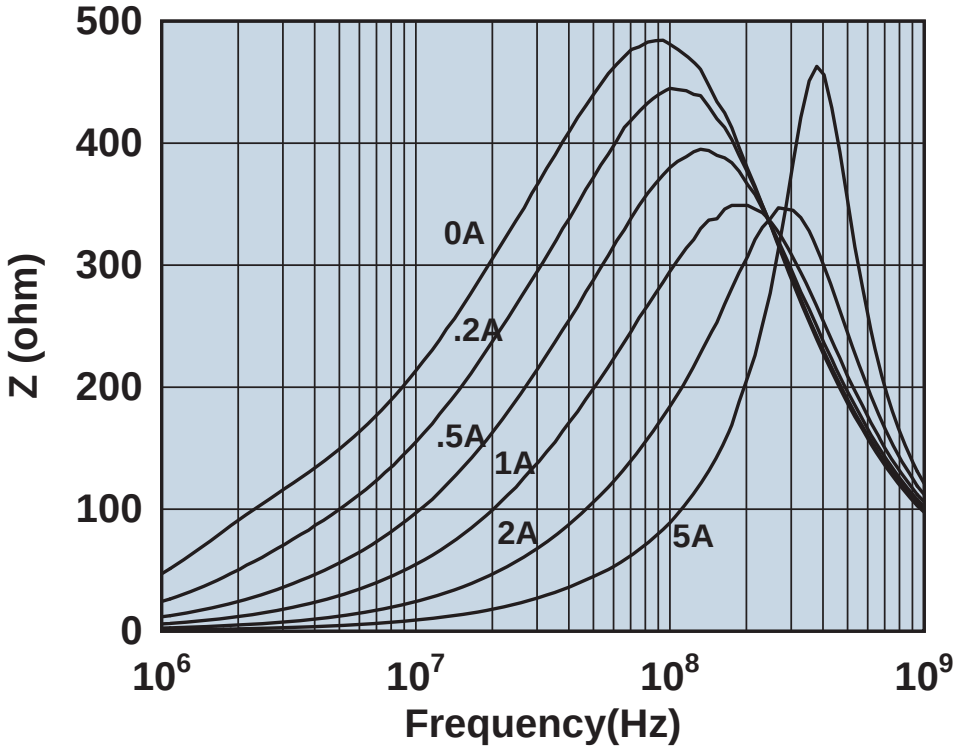


Impedance vs. frequency with dc bias.

2944666681

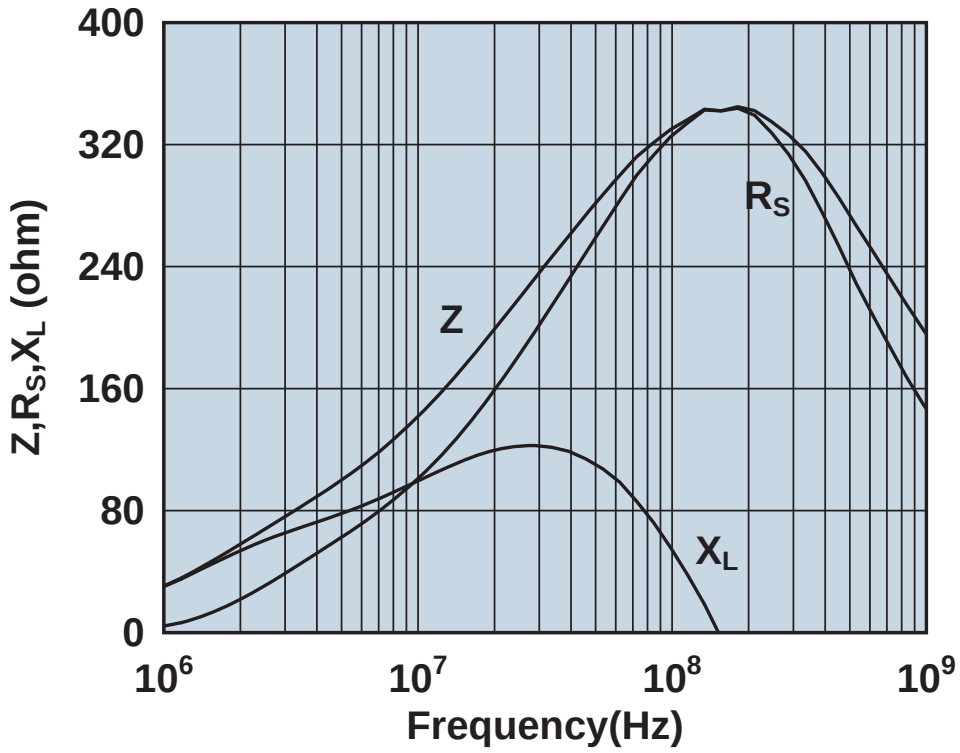


Impedance, reactance, and resistance vs. frequency.

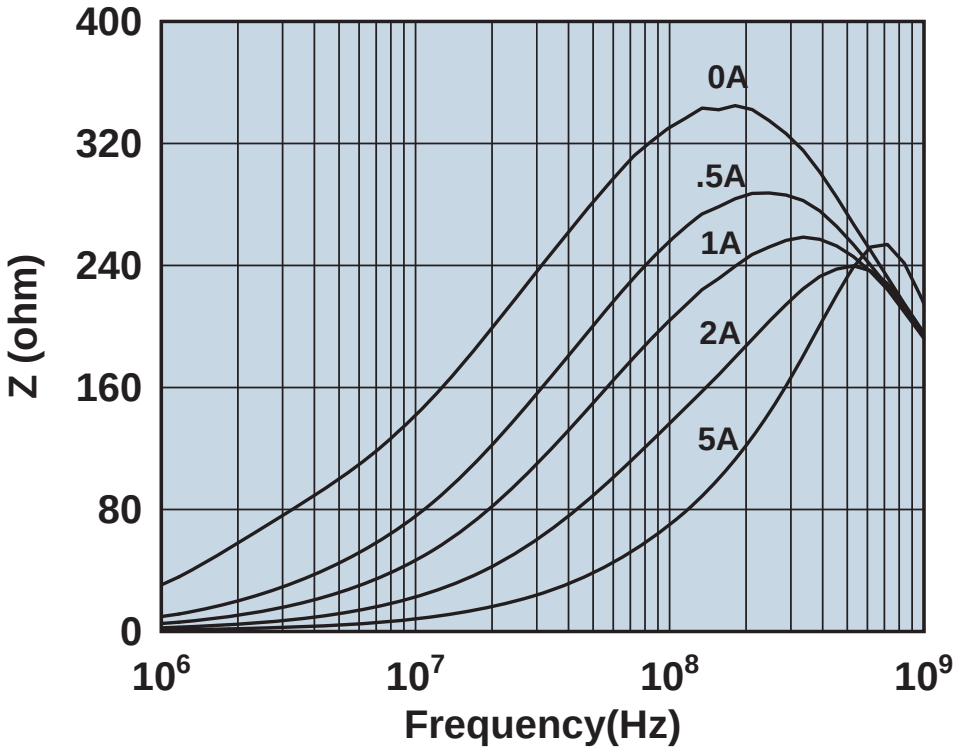


Impedance vs. frequency with dc bias.

2944770301

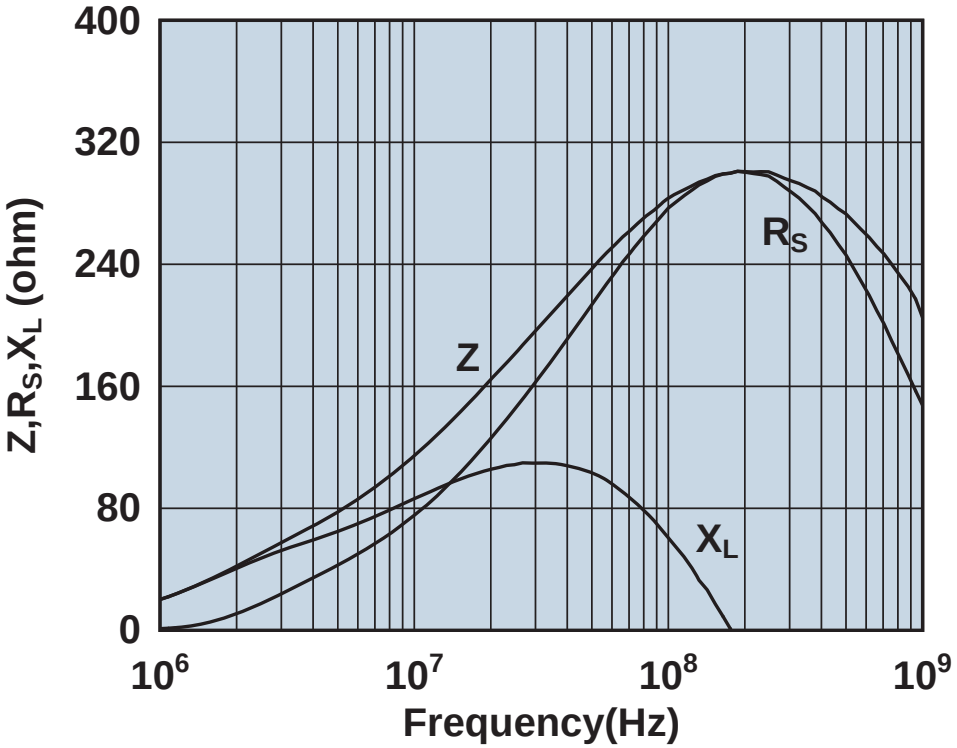


Impedance, reactance, and resistance vs. frequency.

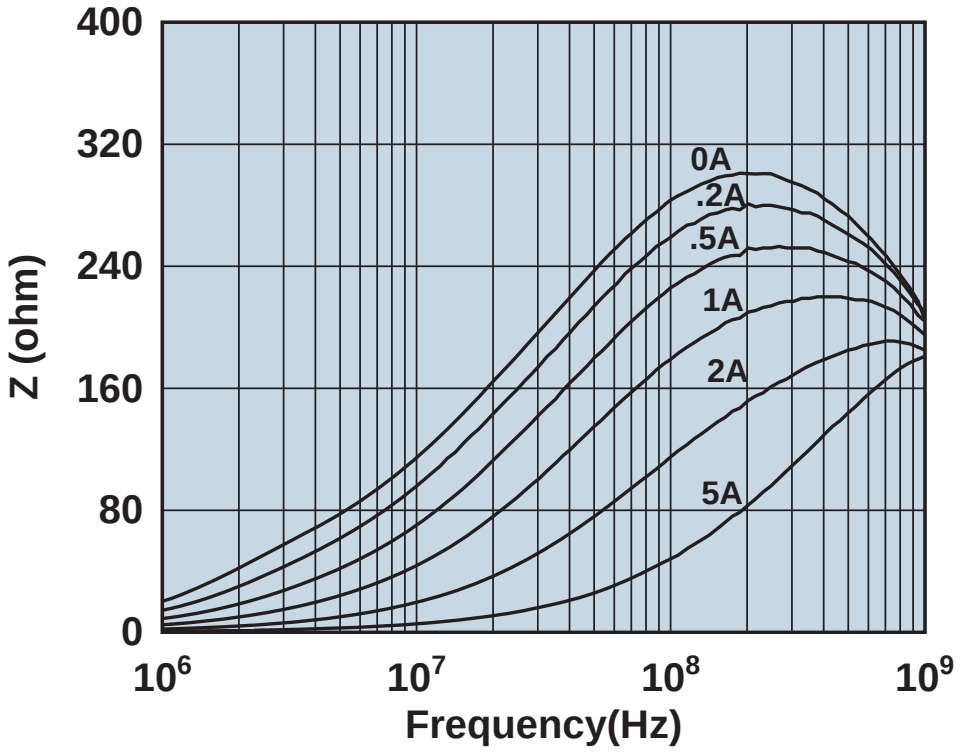


Impedance vs. frequency with dc bias.

2944776101

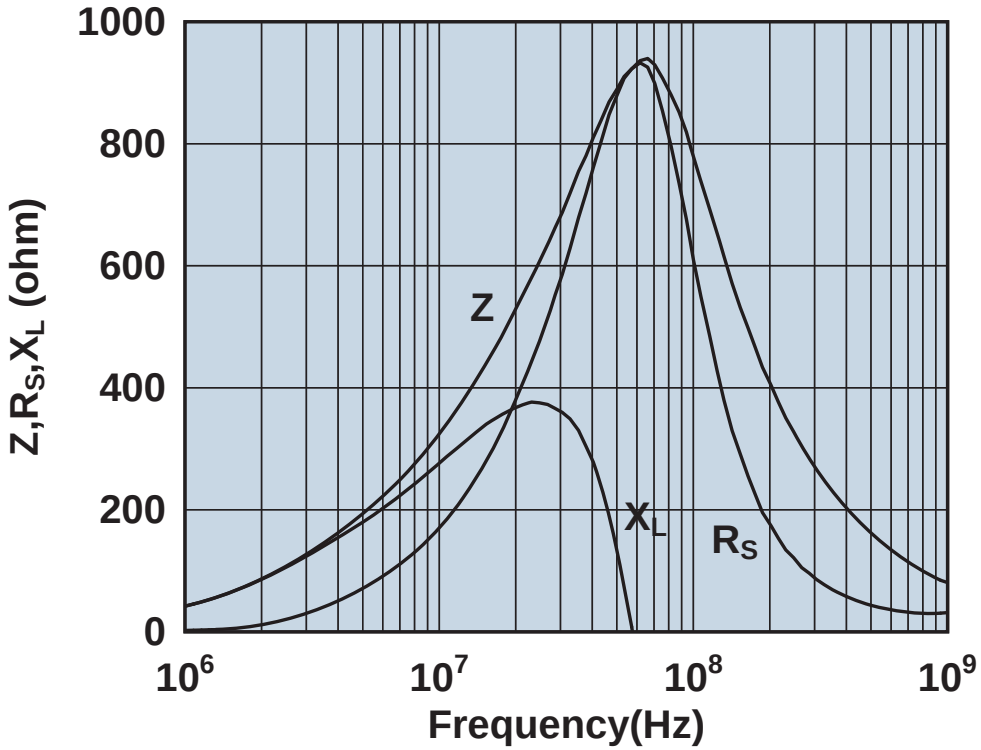


Impedance, reactance, and resistance vs. frequency.

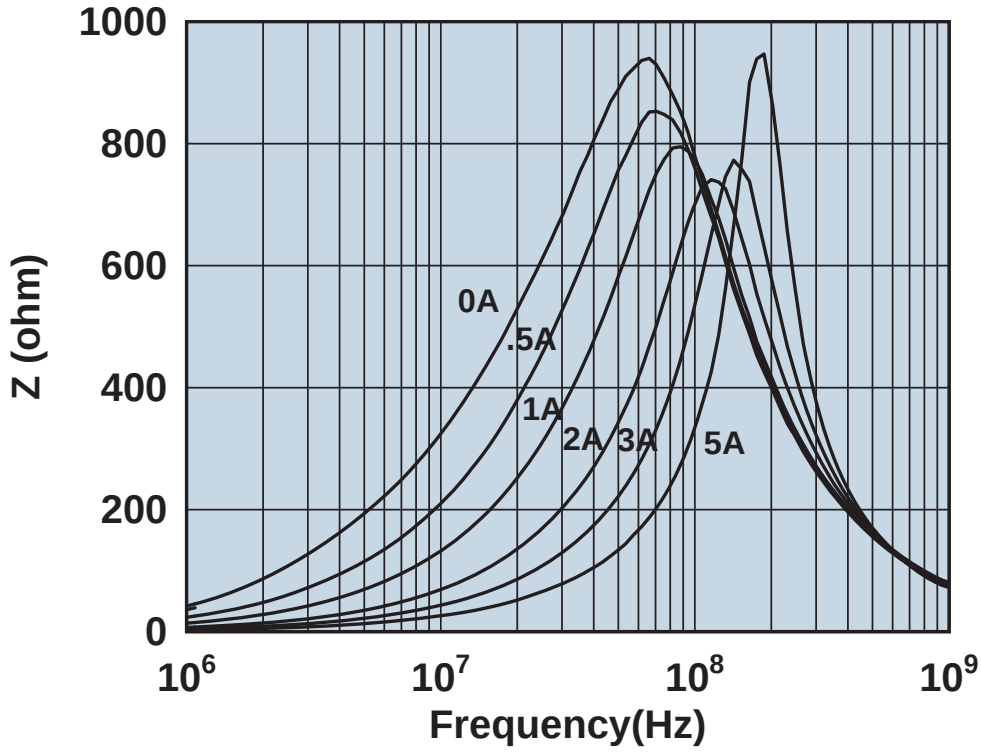


Impedance vs. frequency with dc bias.

2944777721

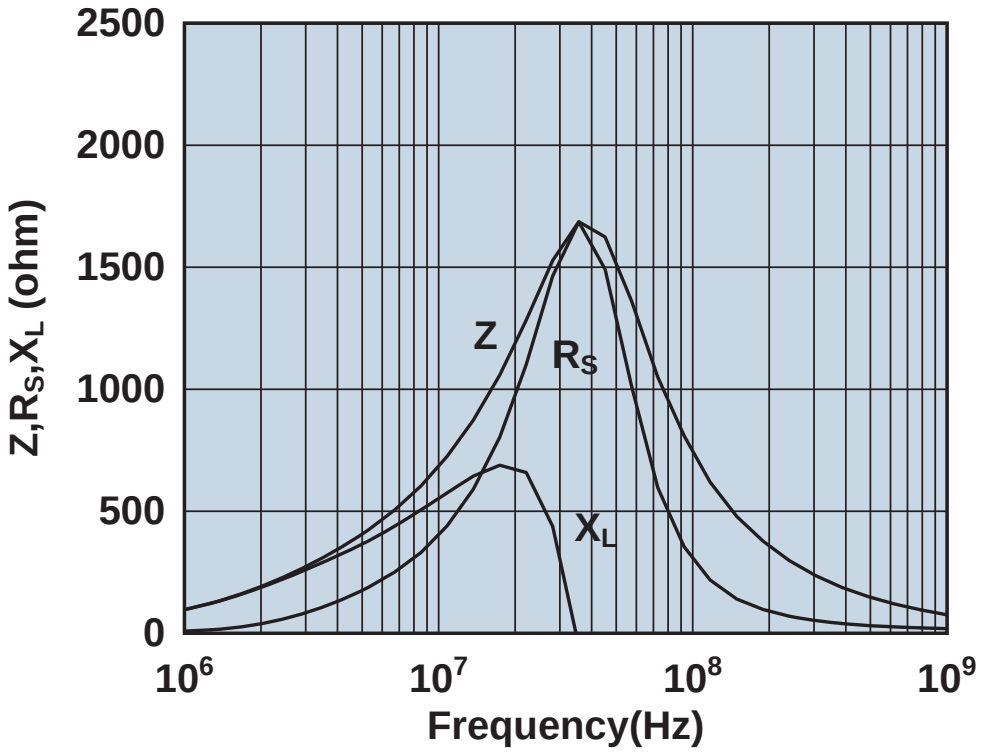


Impedance, reactance, and resistance vs. frequency.

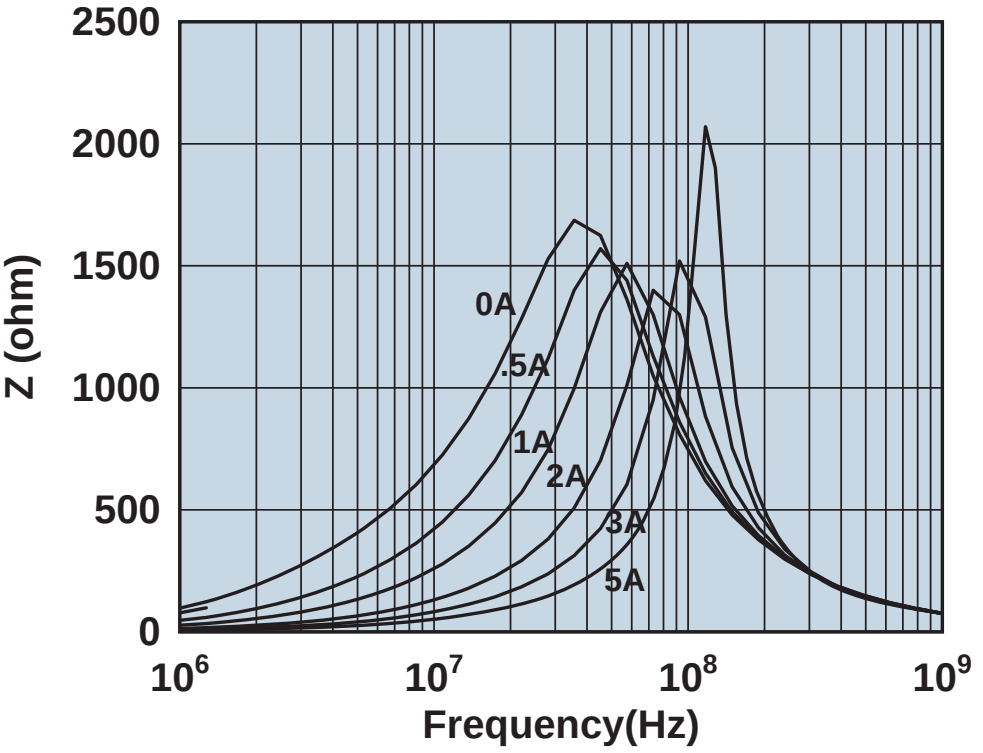


Impedance vs. frequency with dc bias.

2944777741

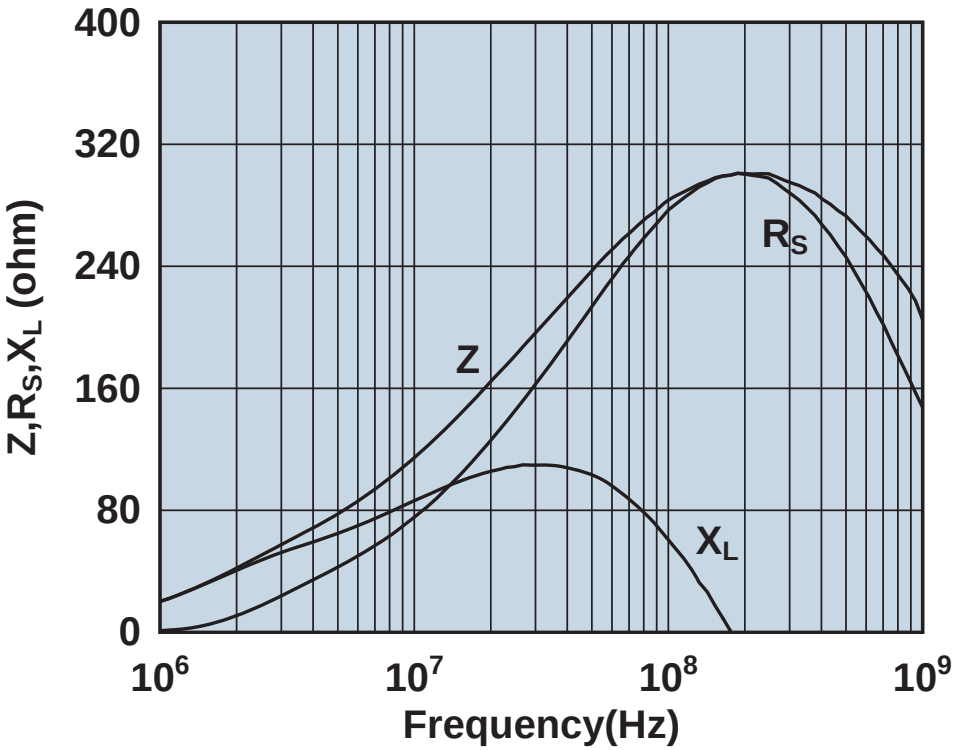


Impedance, reactance, and resistance vs. frequency.

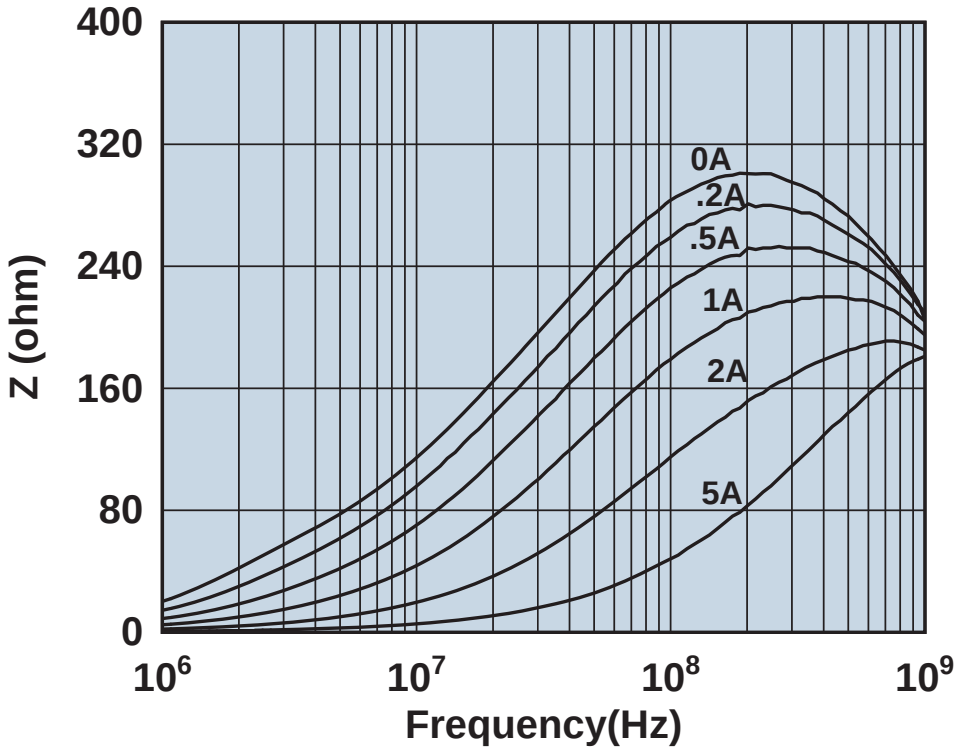


Impedance vs. frequency with dc bias.

2944778101

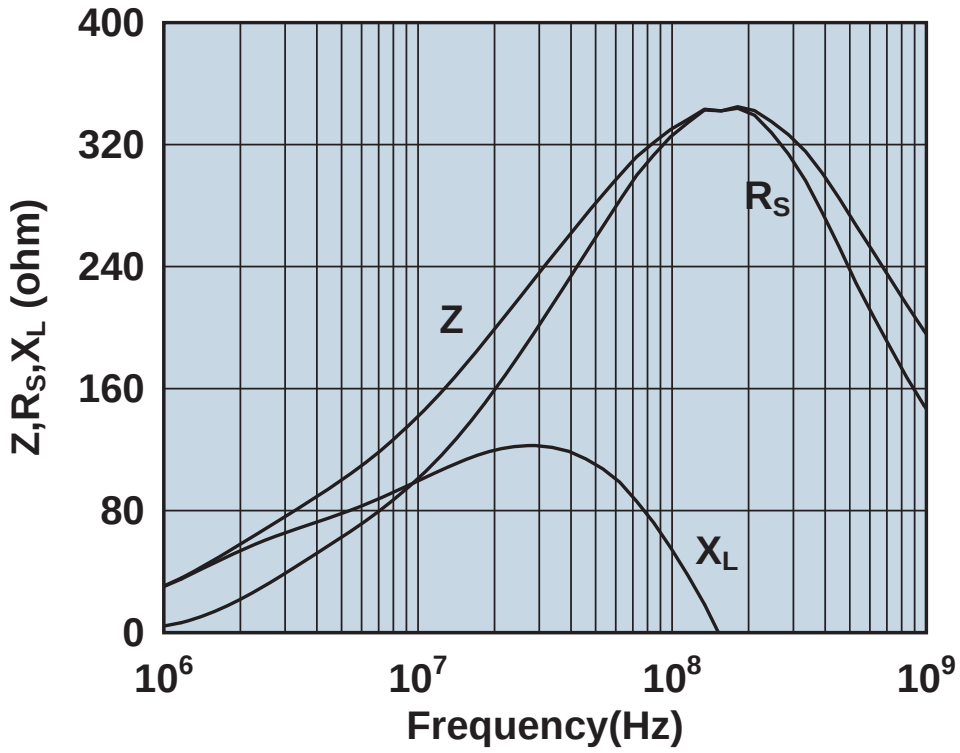


Impedance, reactance, and resistance vs. frequency.

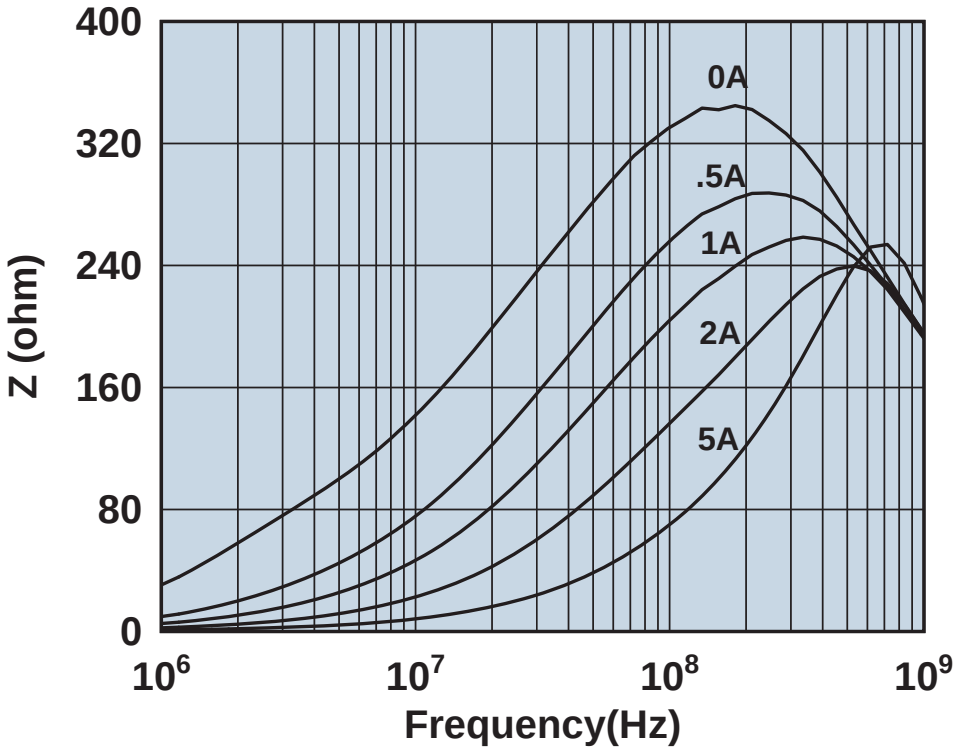


Impedance vs. frequency with dc bias.

2944778301

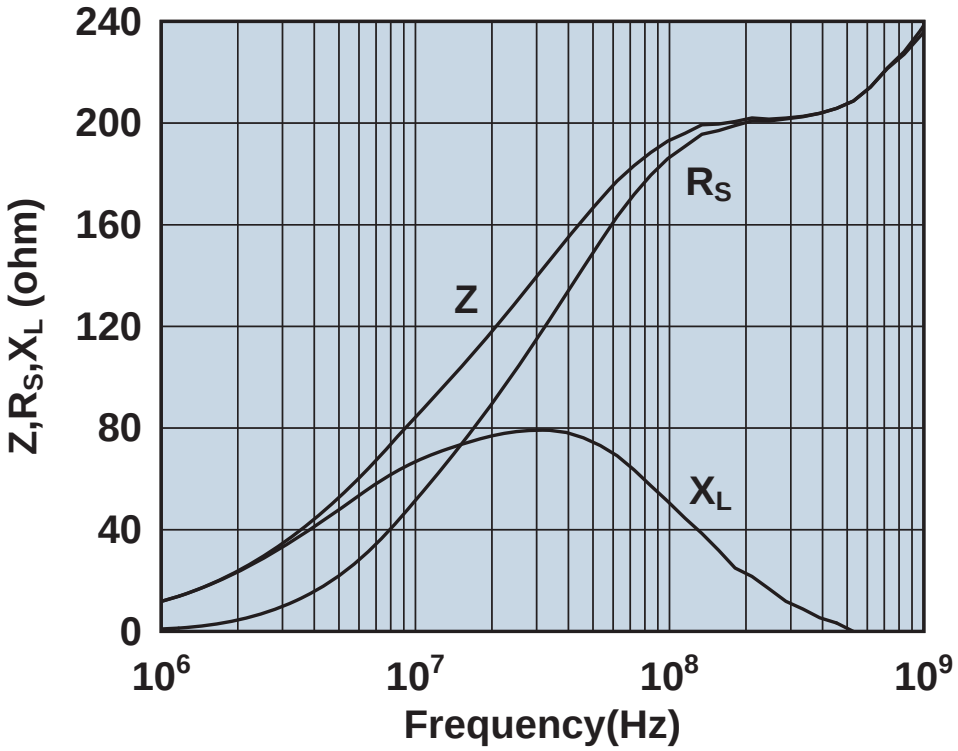


Impedance, reactance, and resistance vs. frequency.

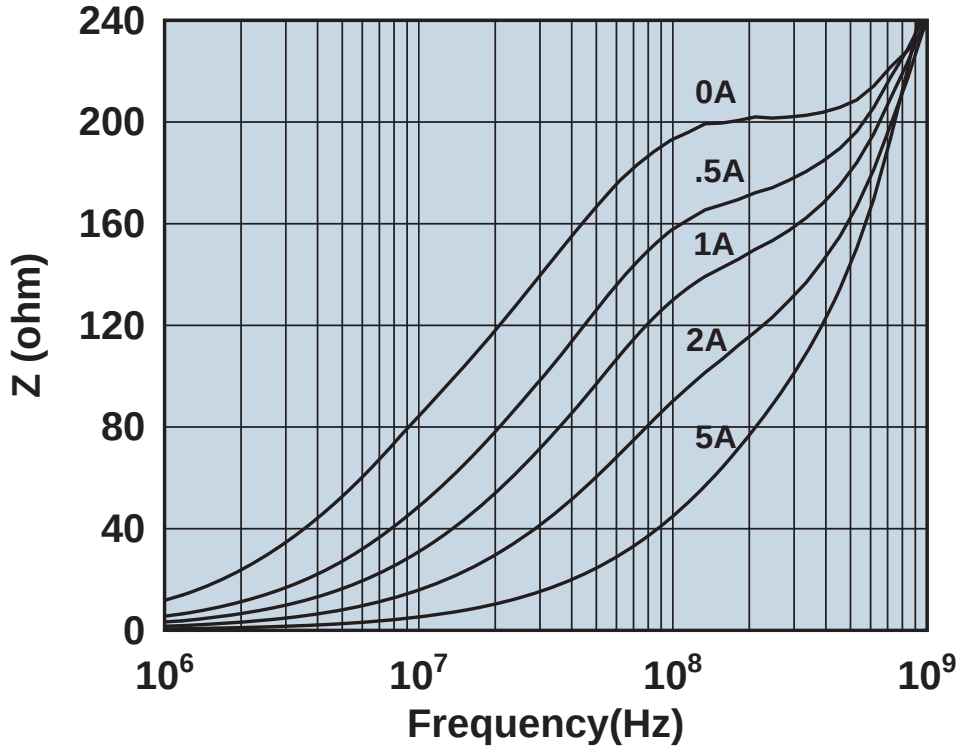


Impedance vs. frequency with dc bias.

2944780301

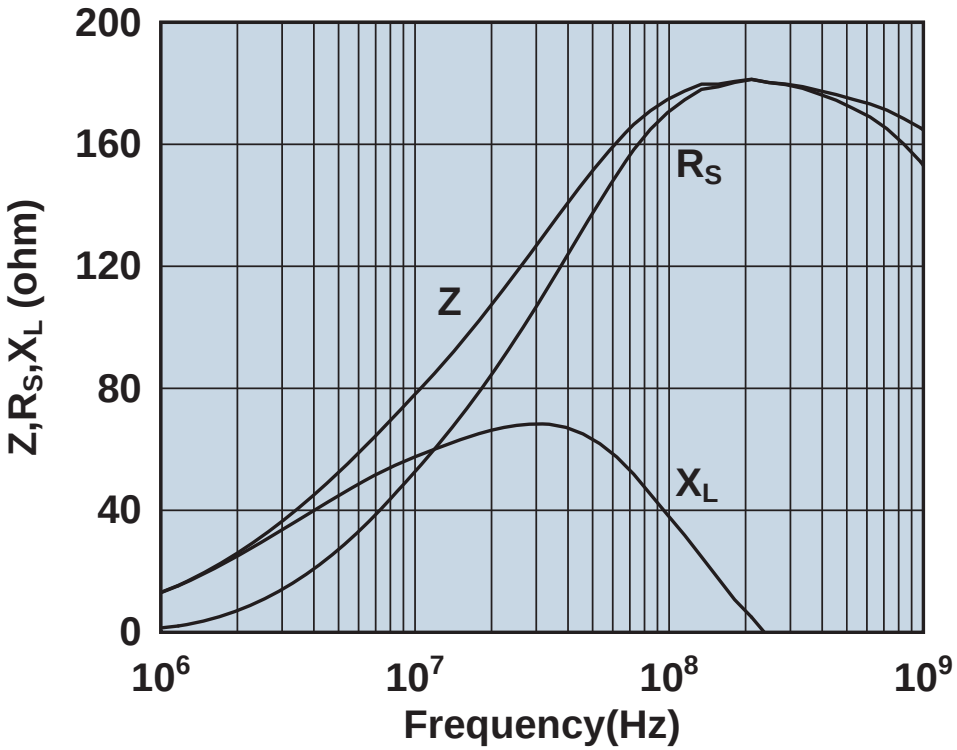


Impedance, reactance, and resistance vs. frequency.

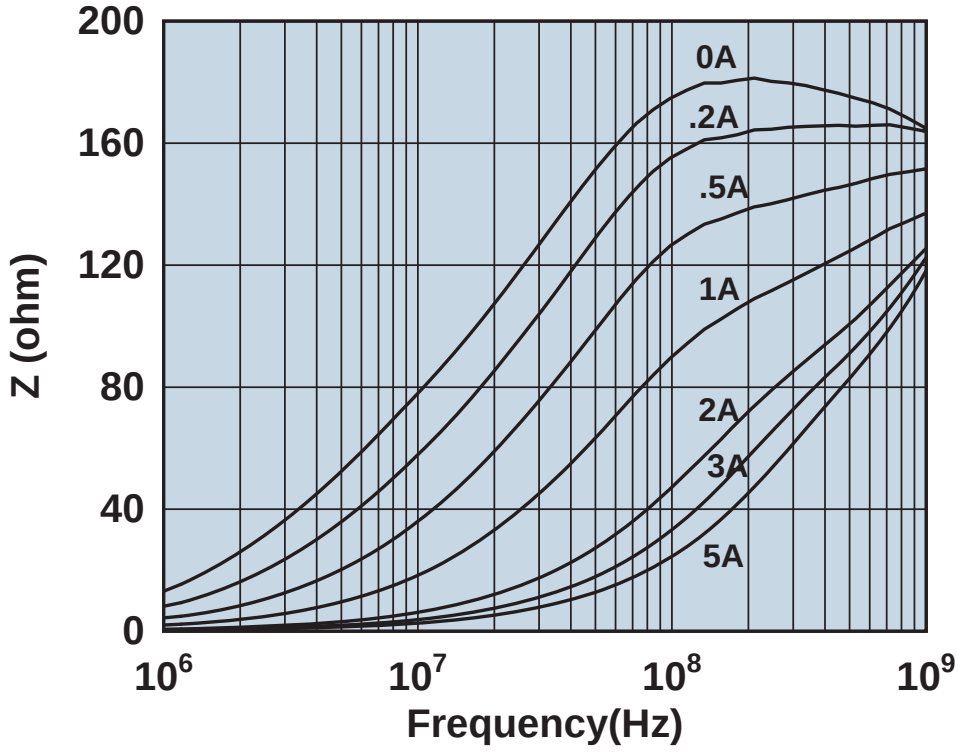


Impedance vs. frequency with dc bias.

2944786101

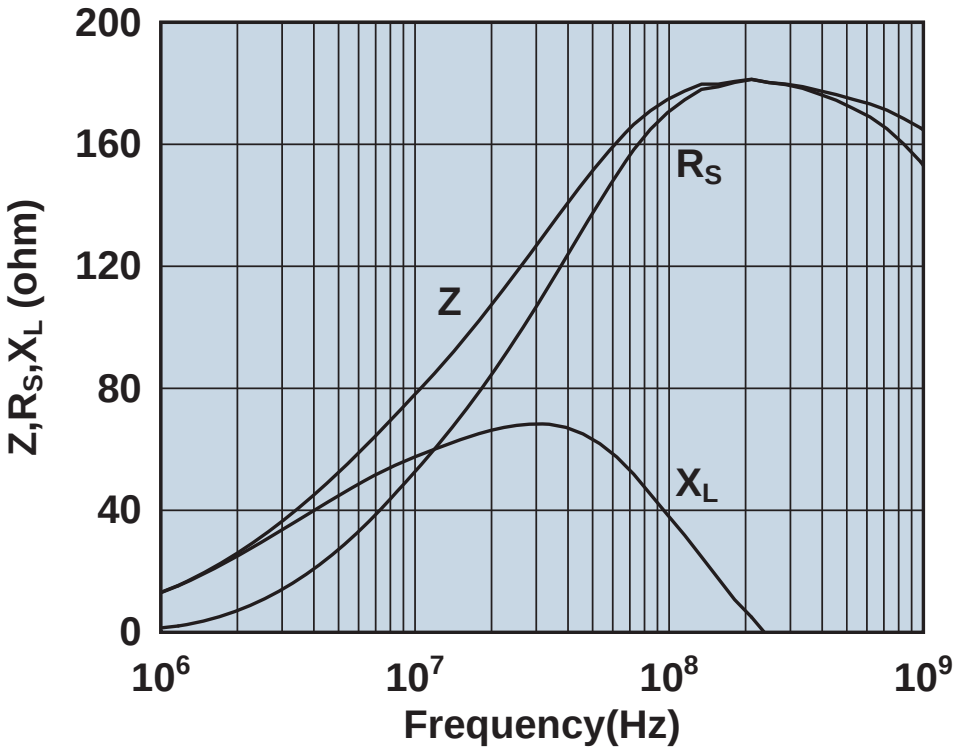


Impedance, reactance, and resistance vs. frequency.

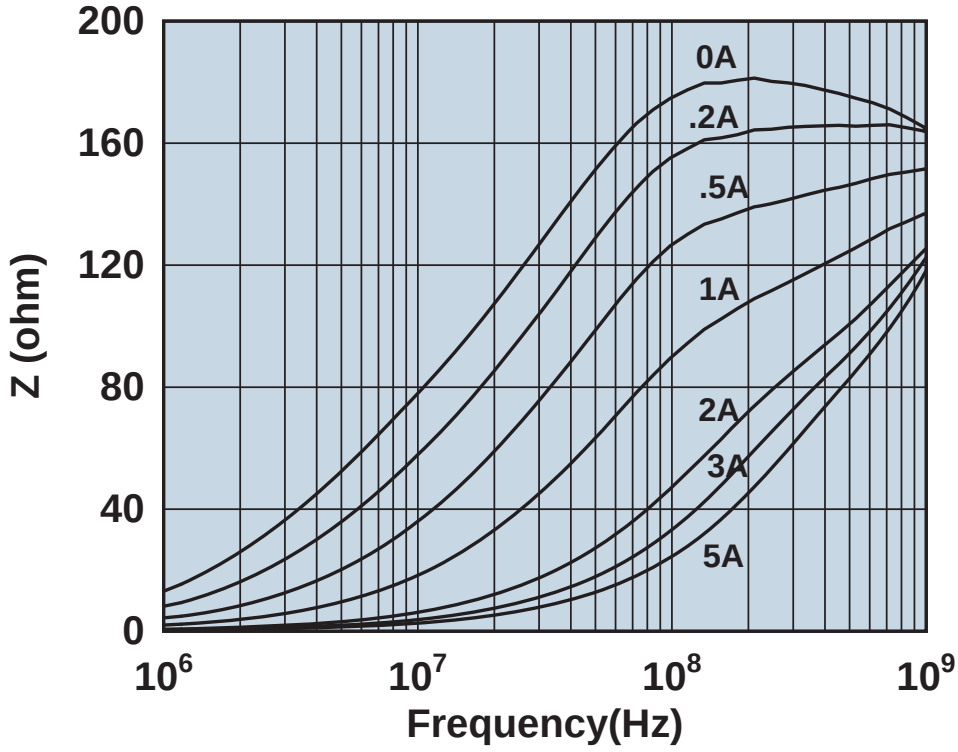


Impedance vs. frequency with dc bias.

2944788101

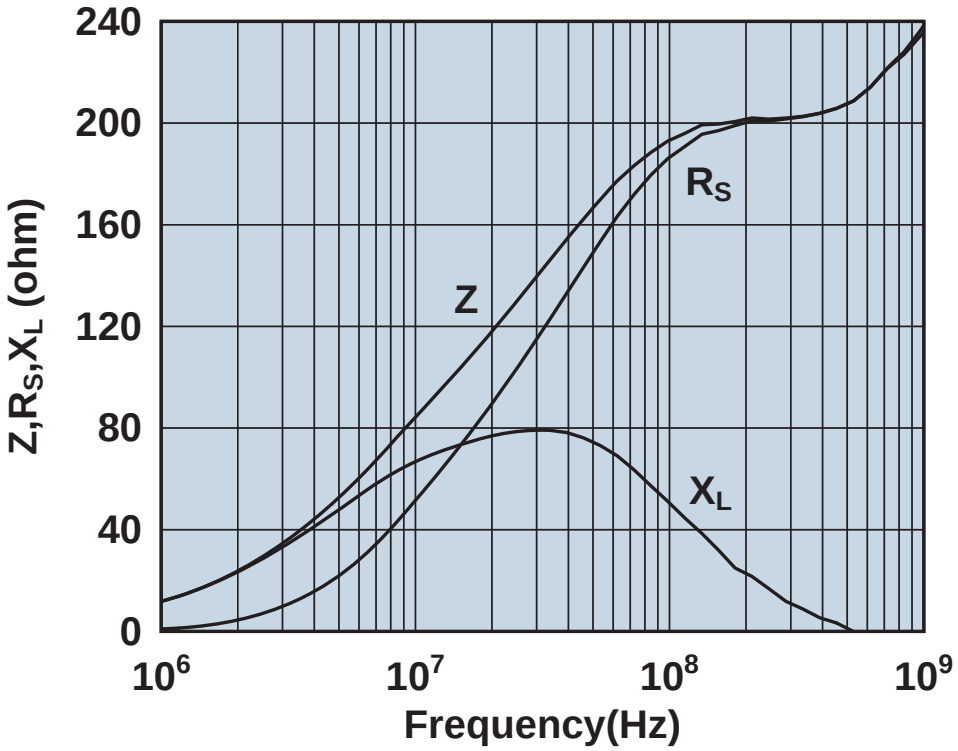


Impedance, reactance, and resistance vs. frequency.

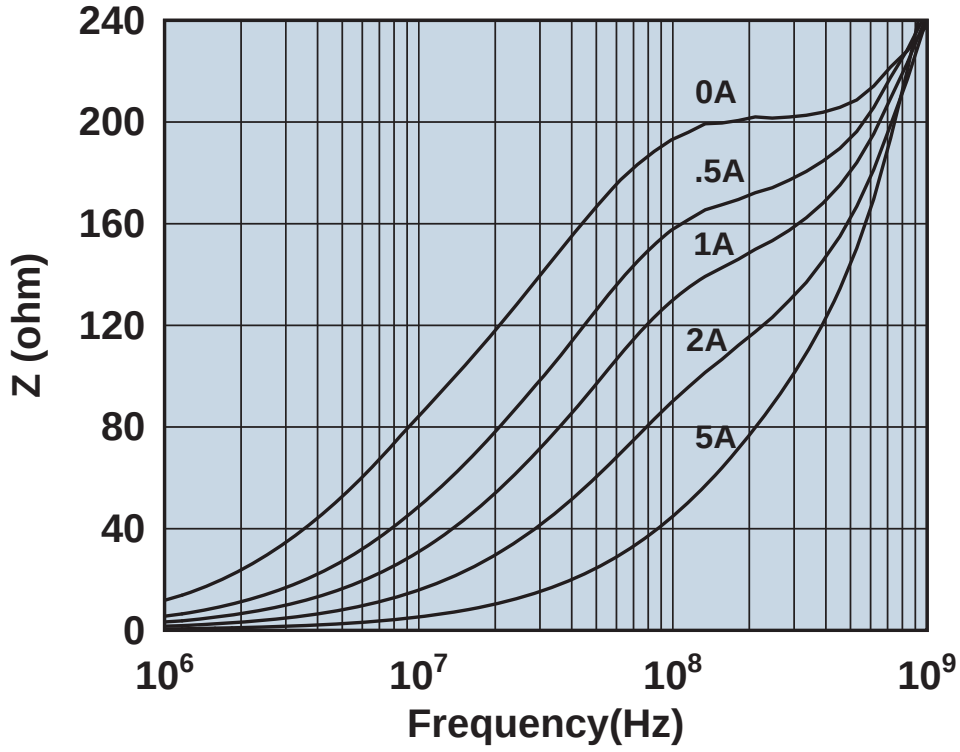


Impedance vs. frequency with dc bias.

2944788301

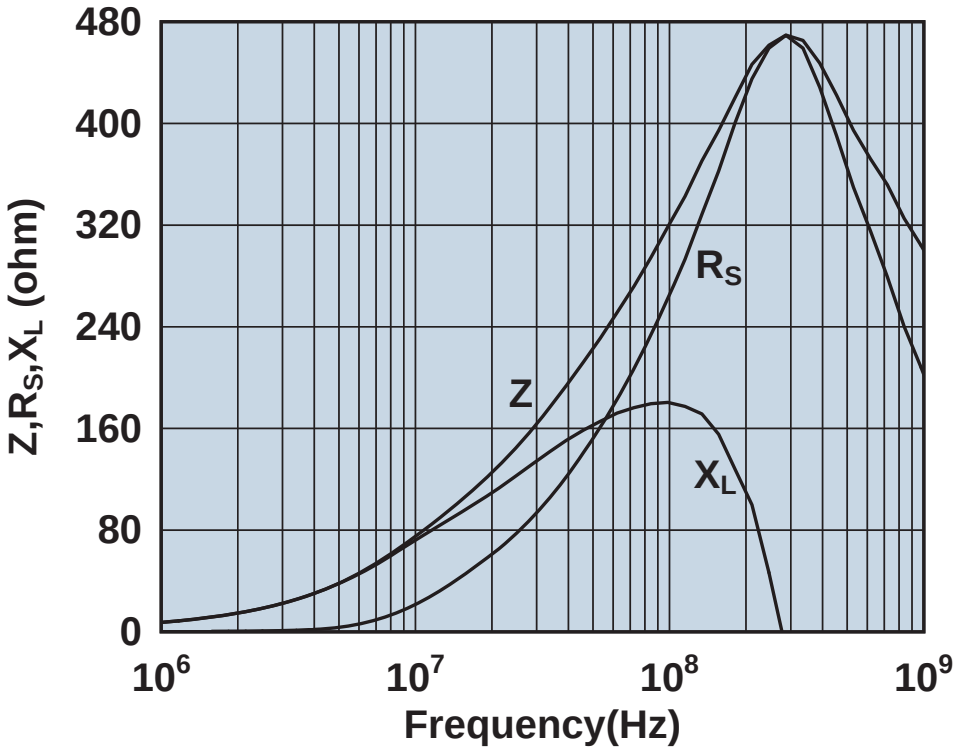


Impedance, reactance, and resistance vs. frequency.

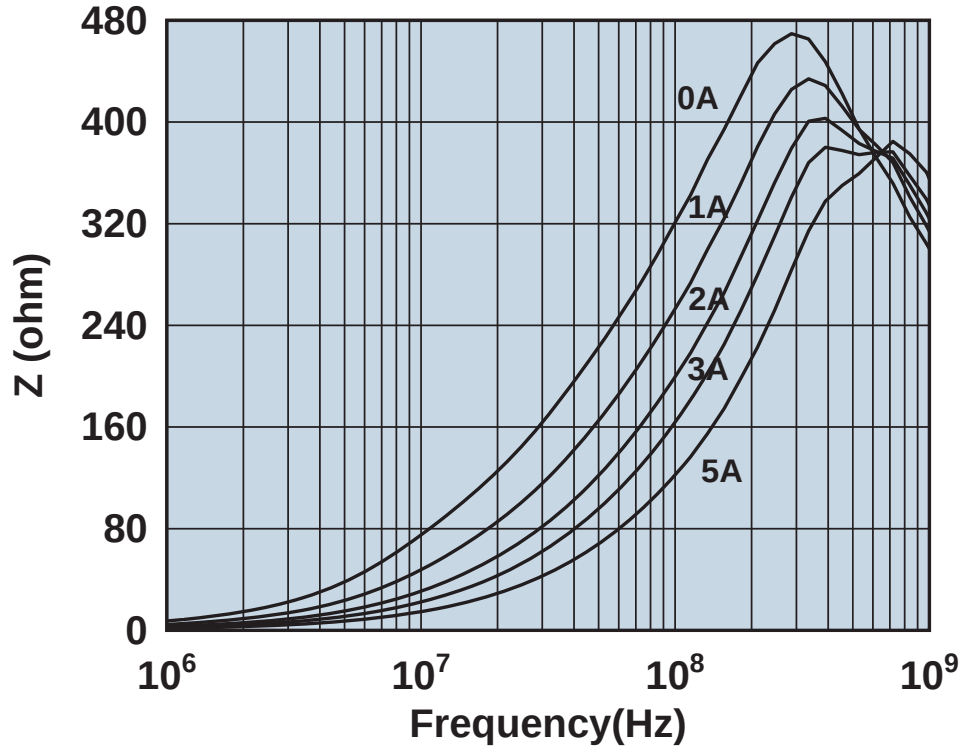


Impedance vs. frequency with dc bias.

2952770301

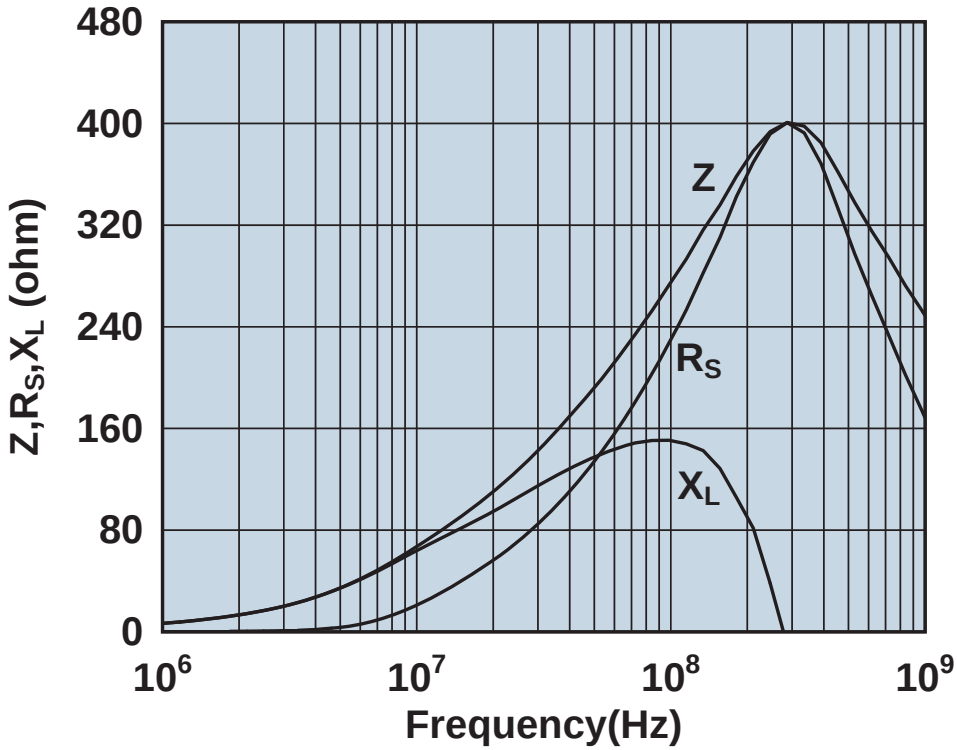


Impedance, reactance, and resistance vs. frequency.

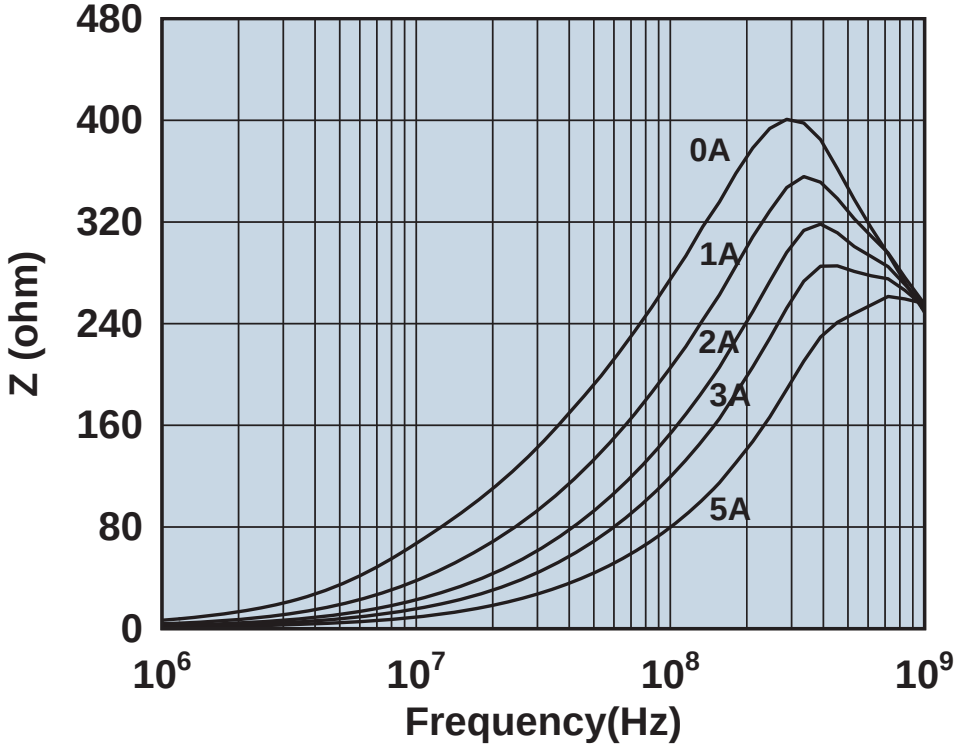


Impedance vs. frequency with dc bias.

2952776101

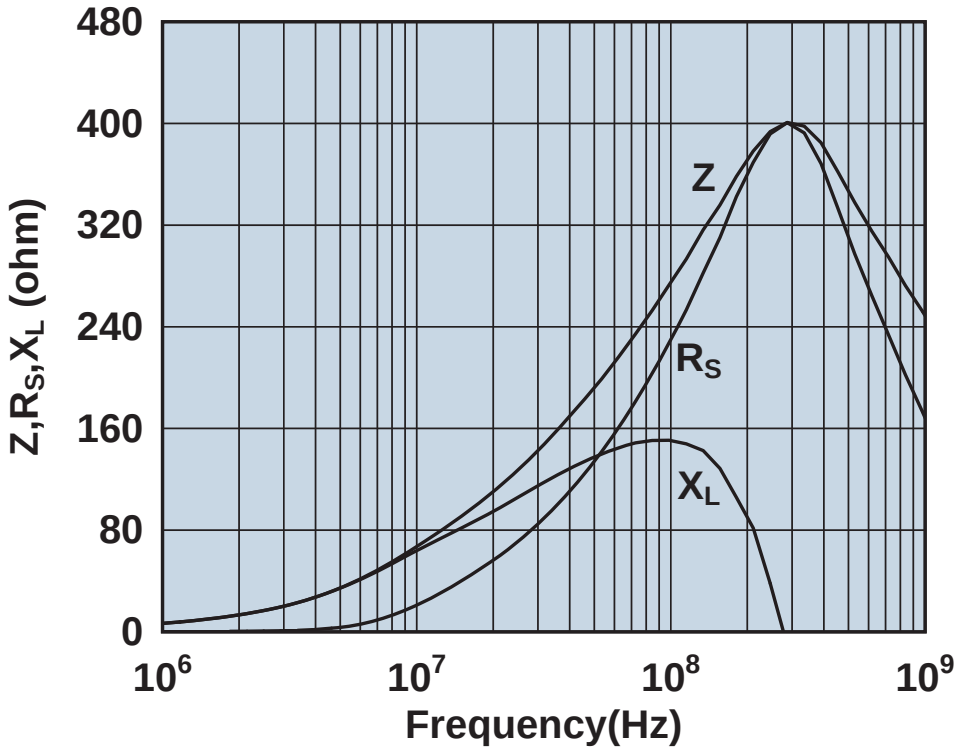


Impedance, reactance, and resistance vs. frequency.

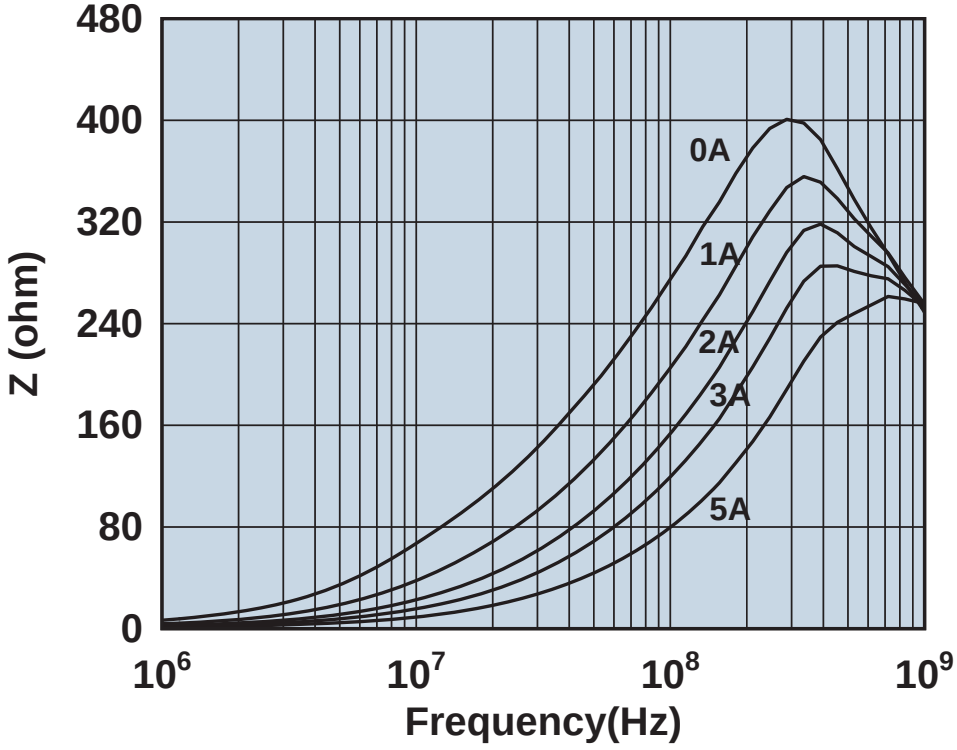


Impedance vs. frequency with dc bias.

2952778101

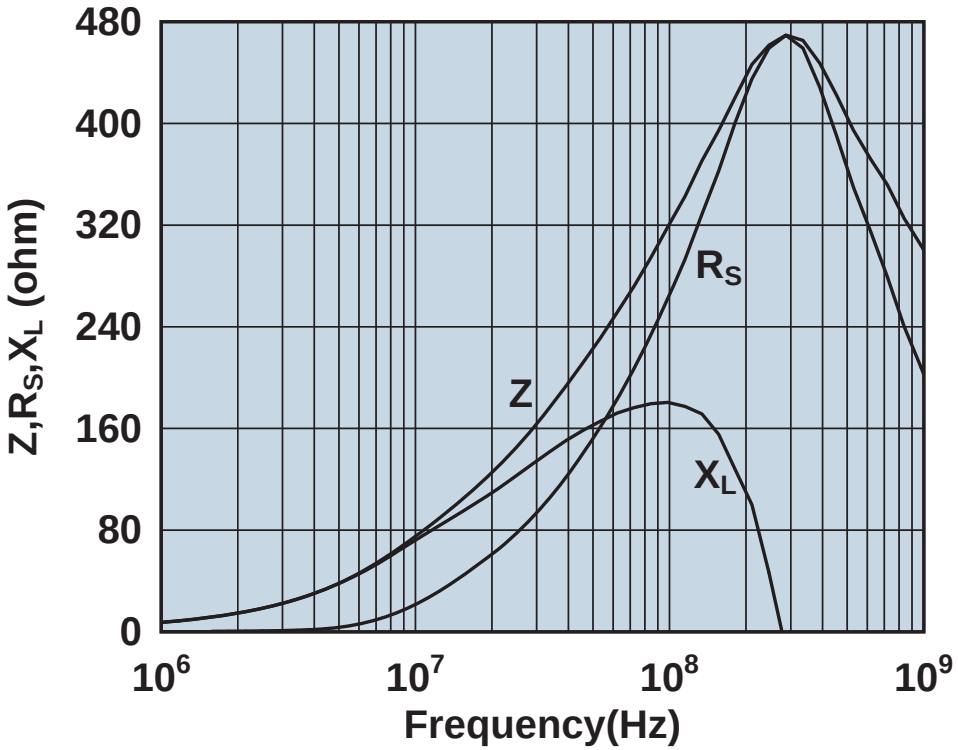


Impedance, reactance, and resistance vs. frequency.

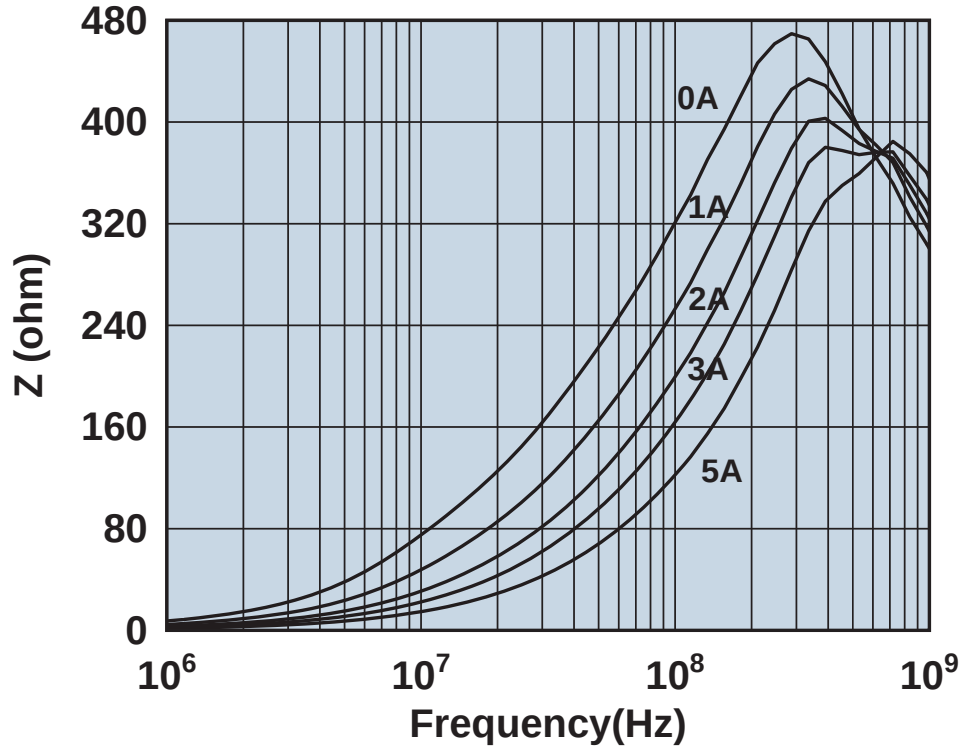


Impedance vs. frequency with dc bias.

2952778301

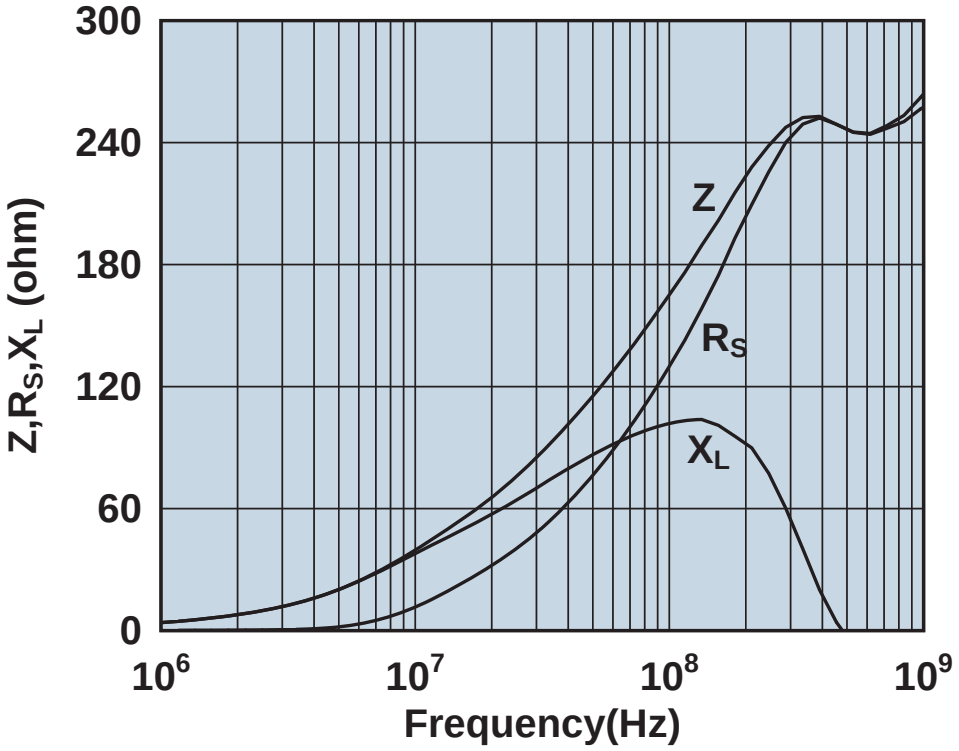


Impedance, reactance, and resistance vs. frequency.

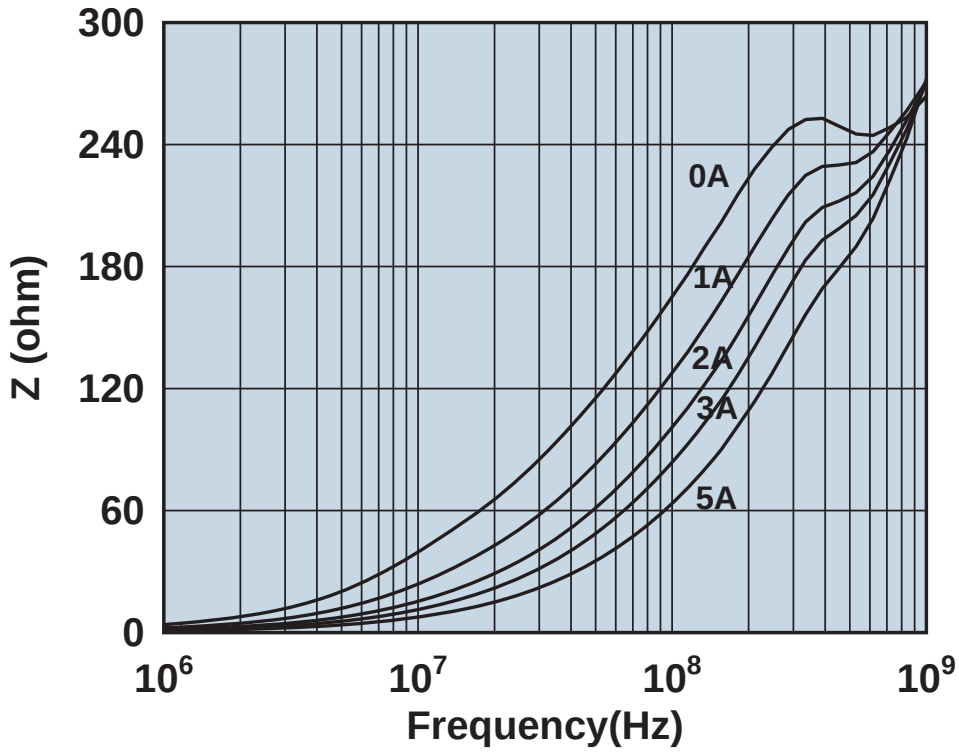


Impedance vs. frequency with dc bias.

2952780301

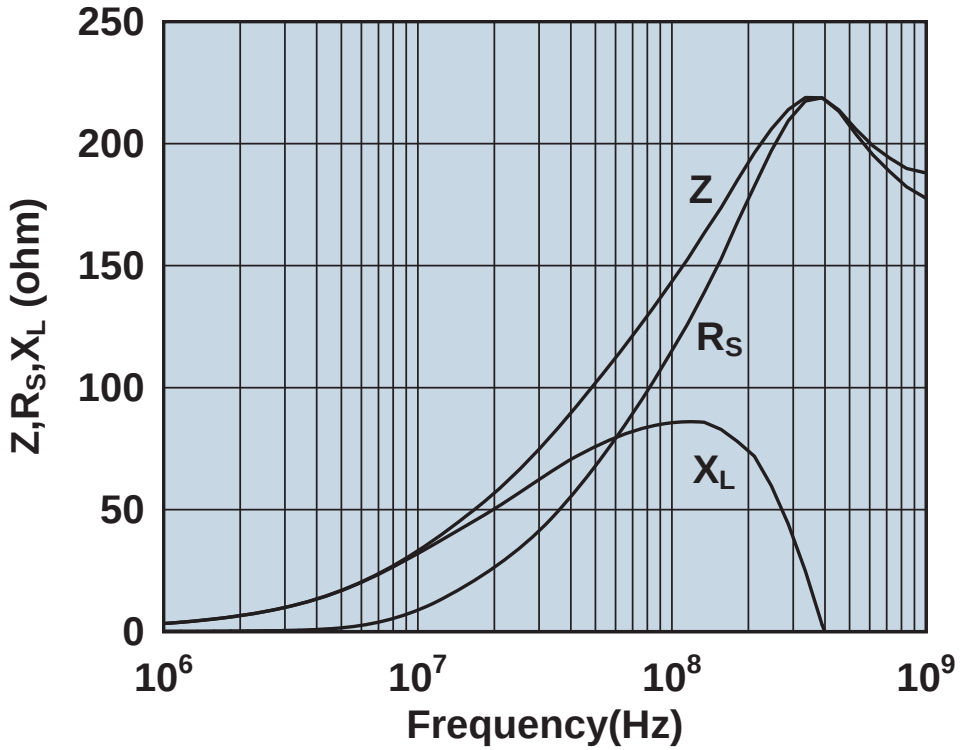


Impedance, reactance, and resistance vs. frequency.

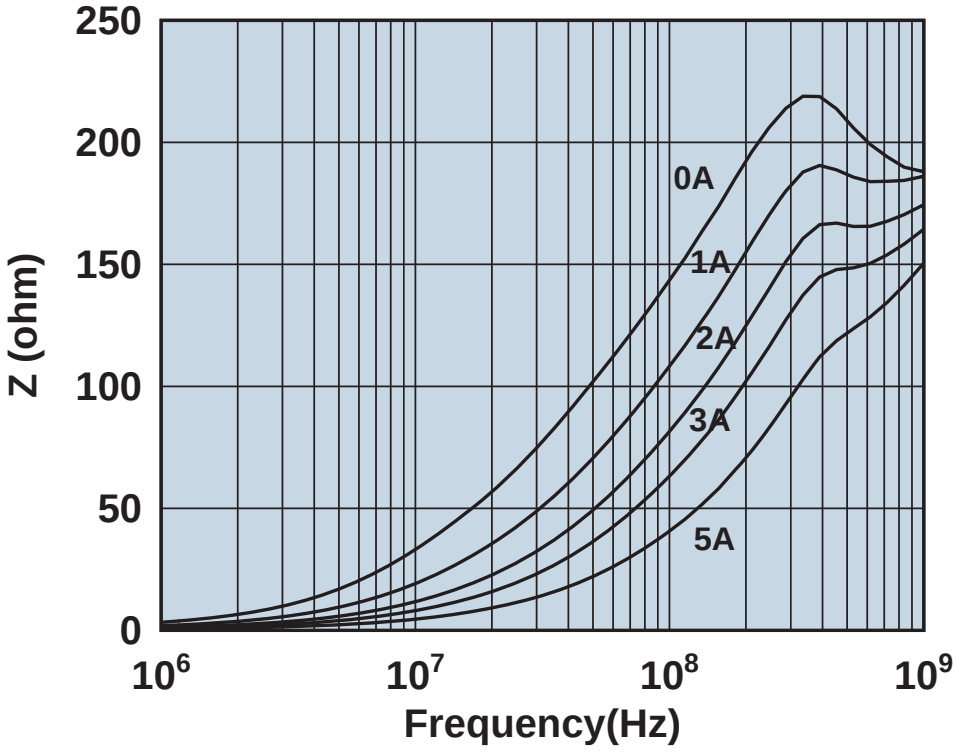


Impedance vs. frequency with dc bias.

2952786101

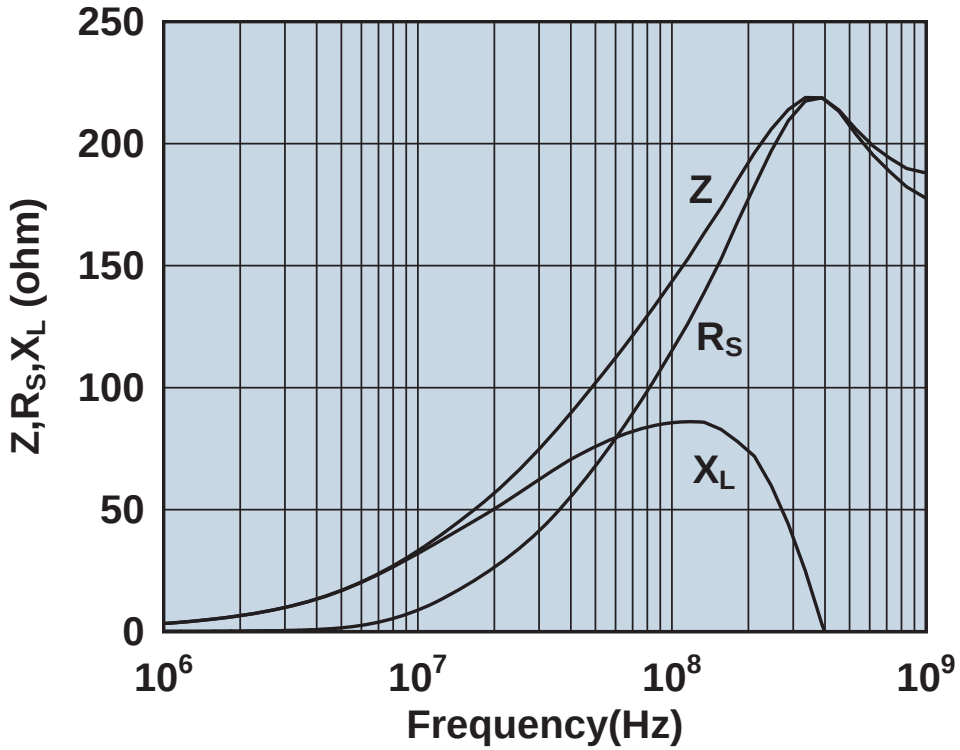


Impedance, reactance, and resistance vs. frequency.

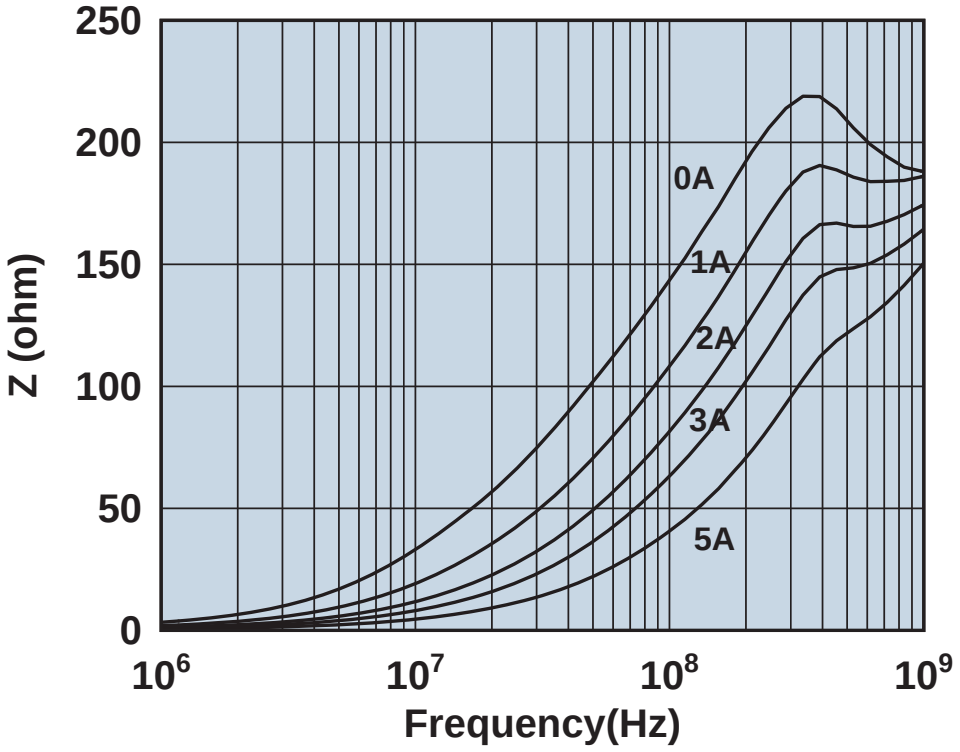


Impedance vs. frequency with dc bias.

2952788101

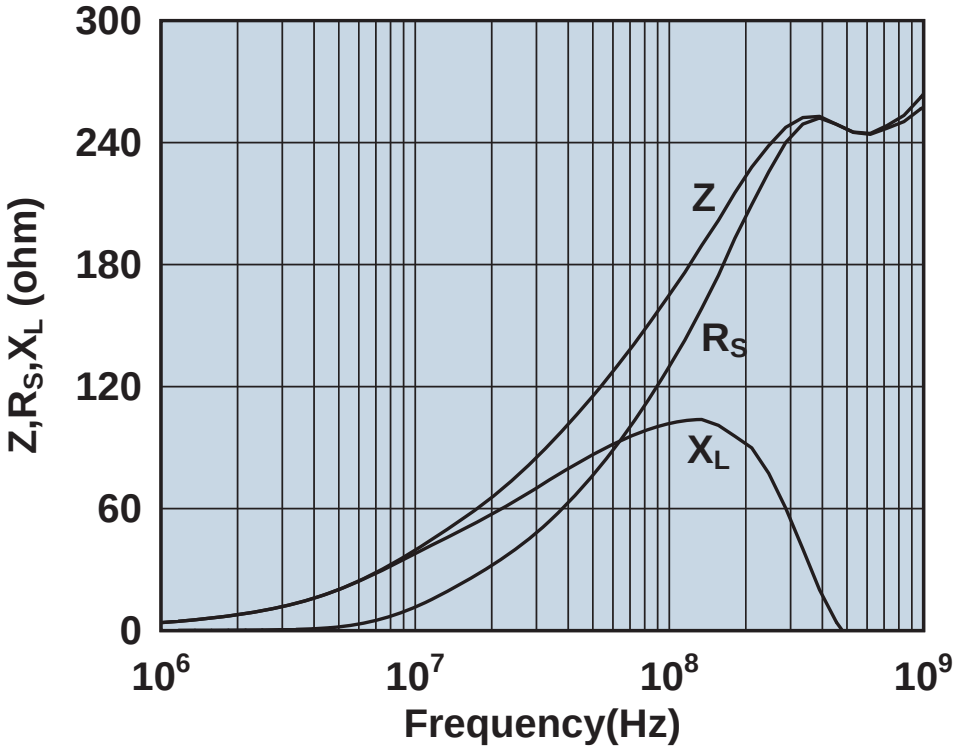


Impedance, reactance, and resistance vs. frequency.

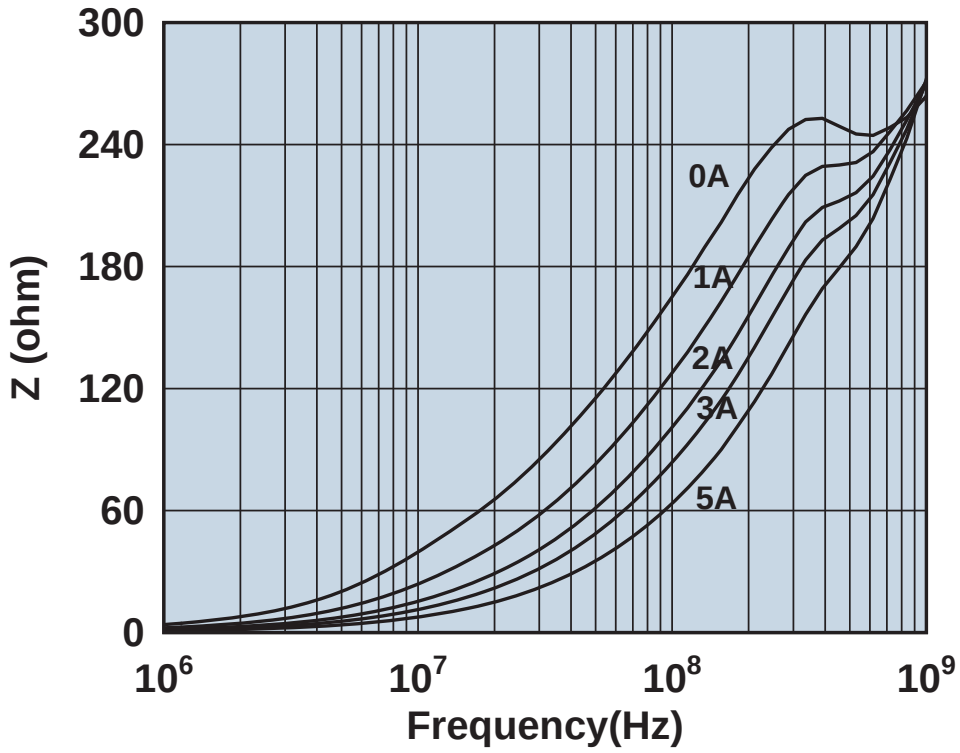


Impedance vs. frequency with dc bias.

2952788301

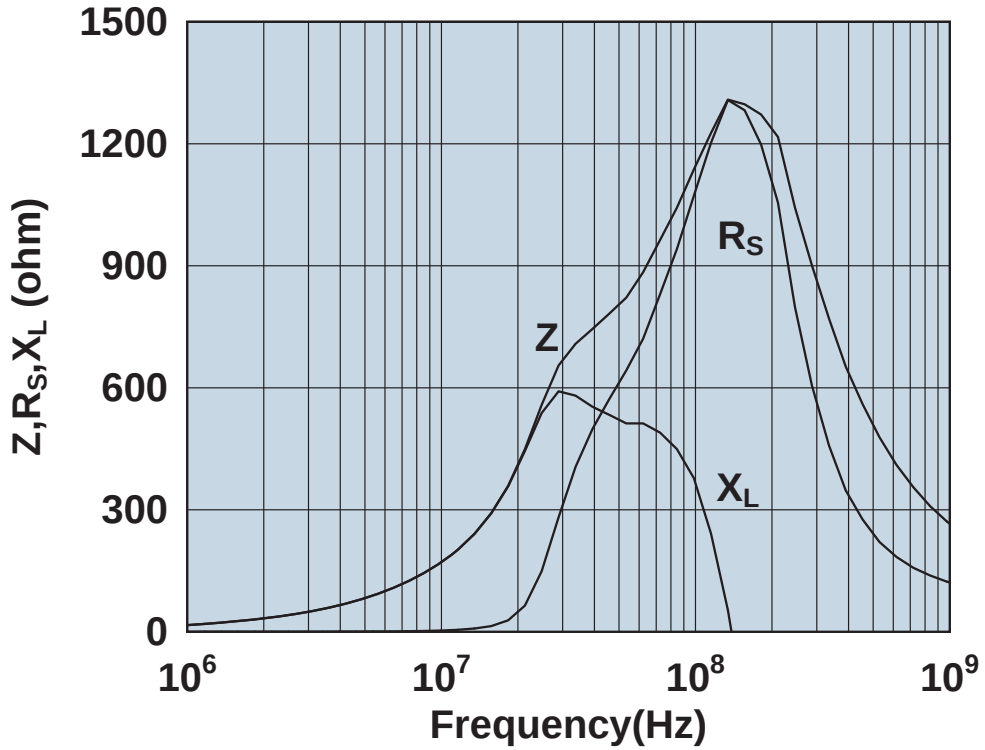


Impedance, reactance, and resistance vs. frequency.

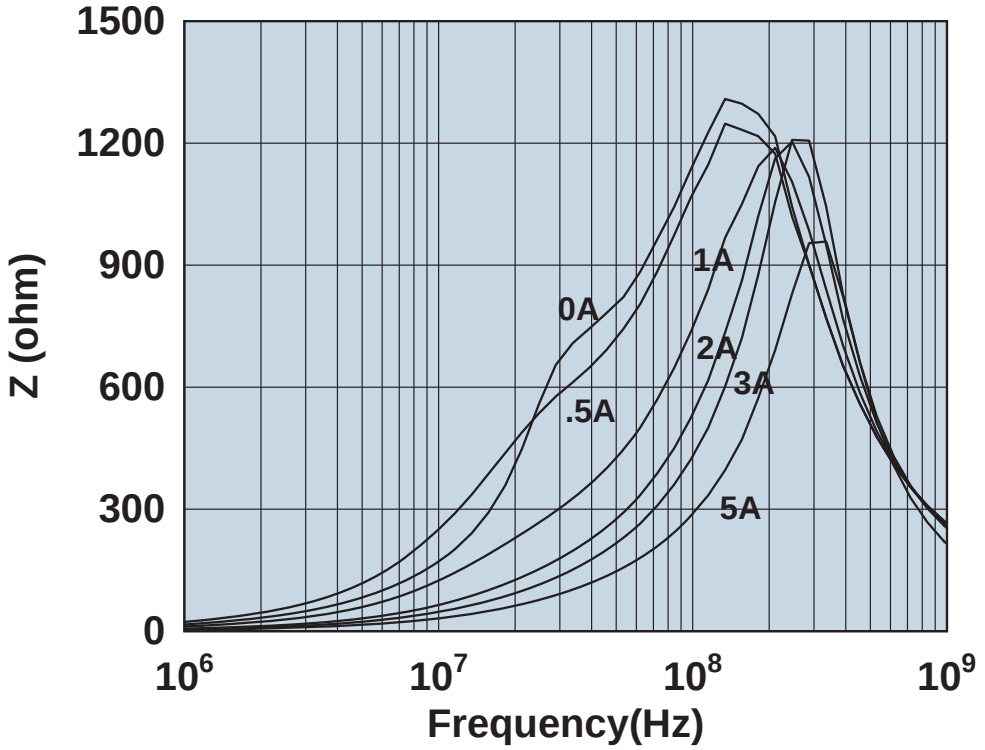


Impedance vs. frequency with dc bias.

2961666631

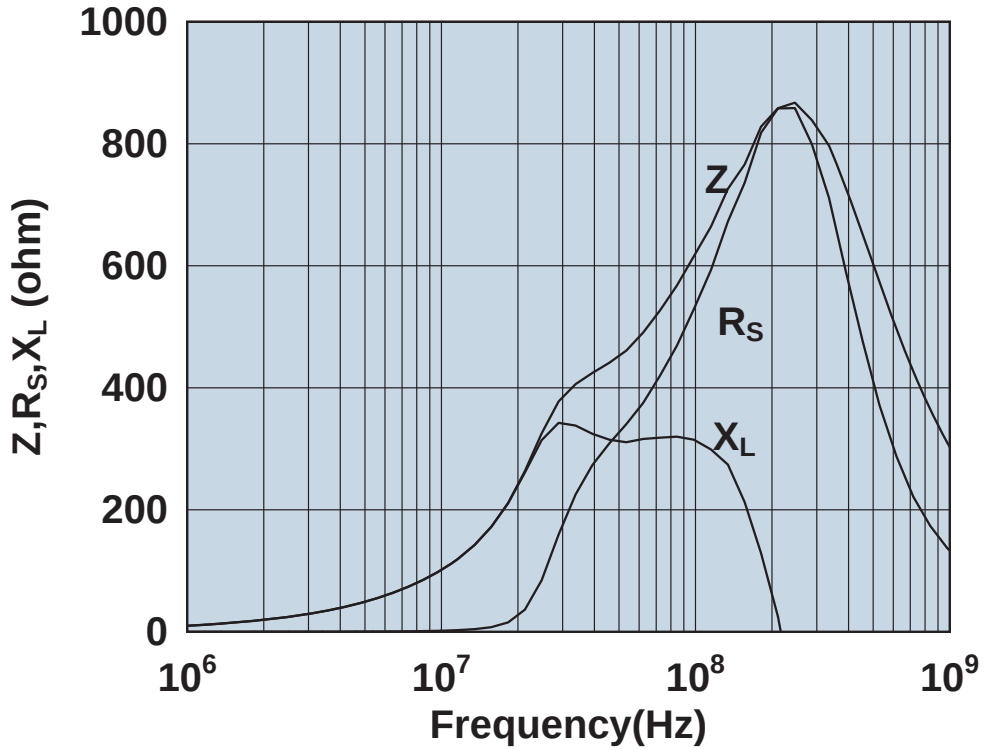


Impedance, reactance, and resistance vs. frequency.

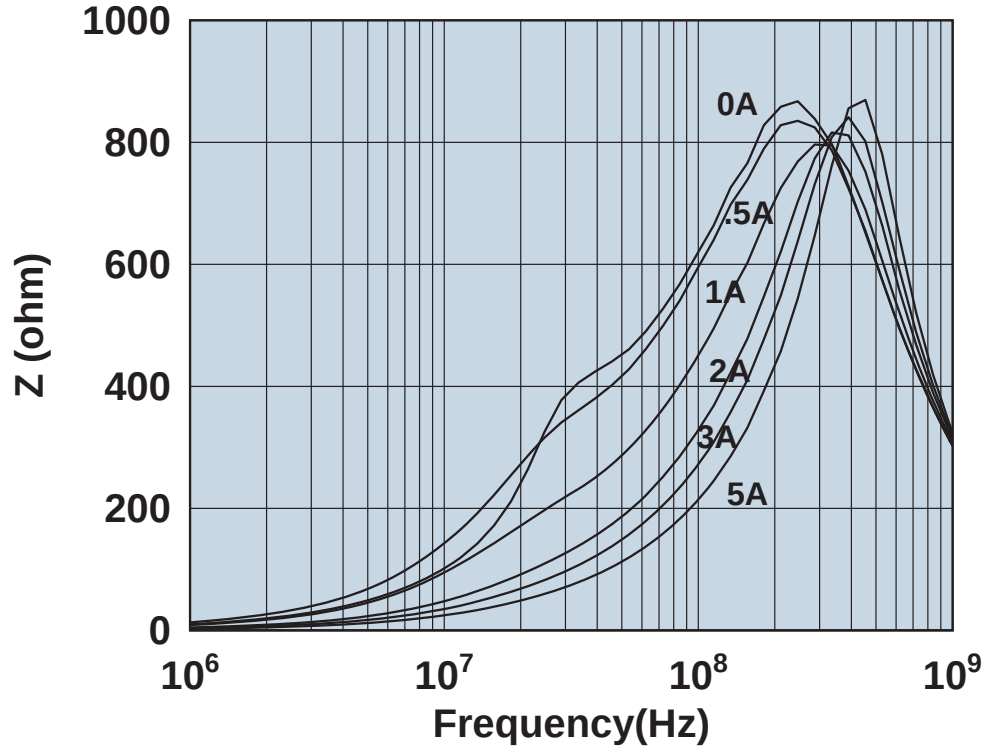


Impedance vs. frequency with dc bias.

2961666651

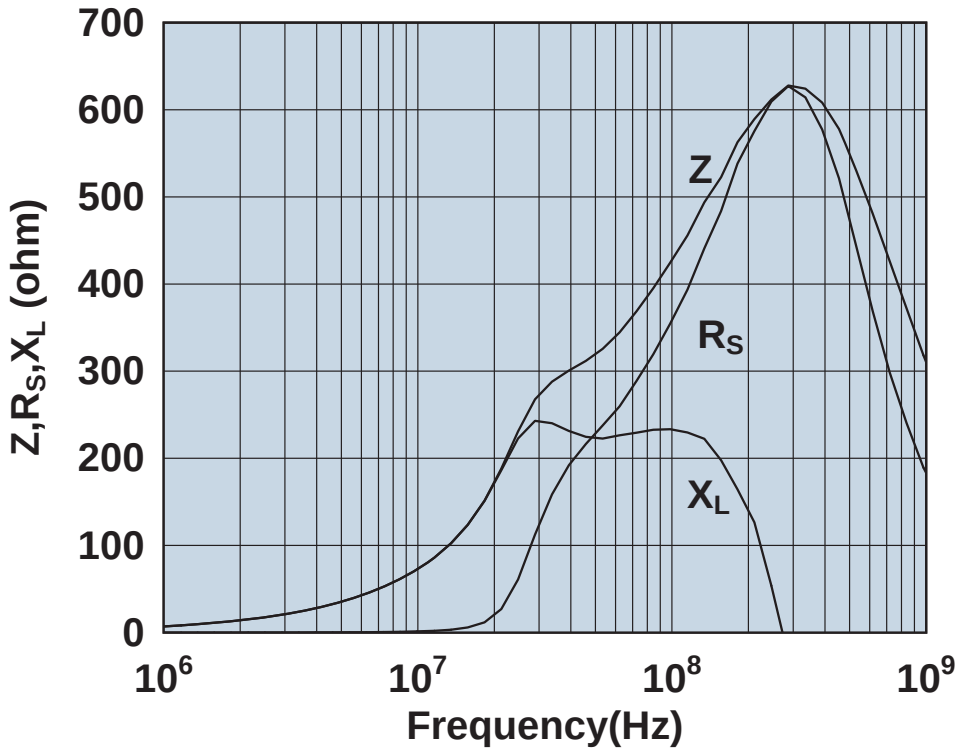


Impedance, reactance, and resistance vs. frequency.

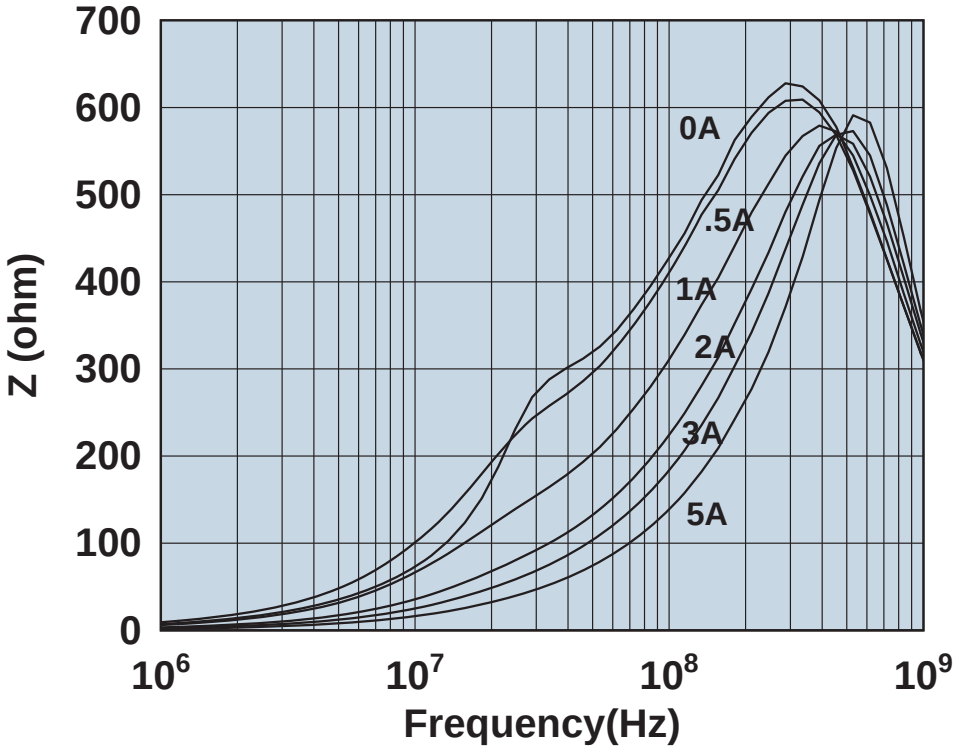


Impedance vs. frequency with dc bias.

2961666661

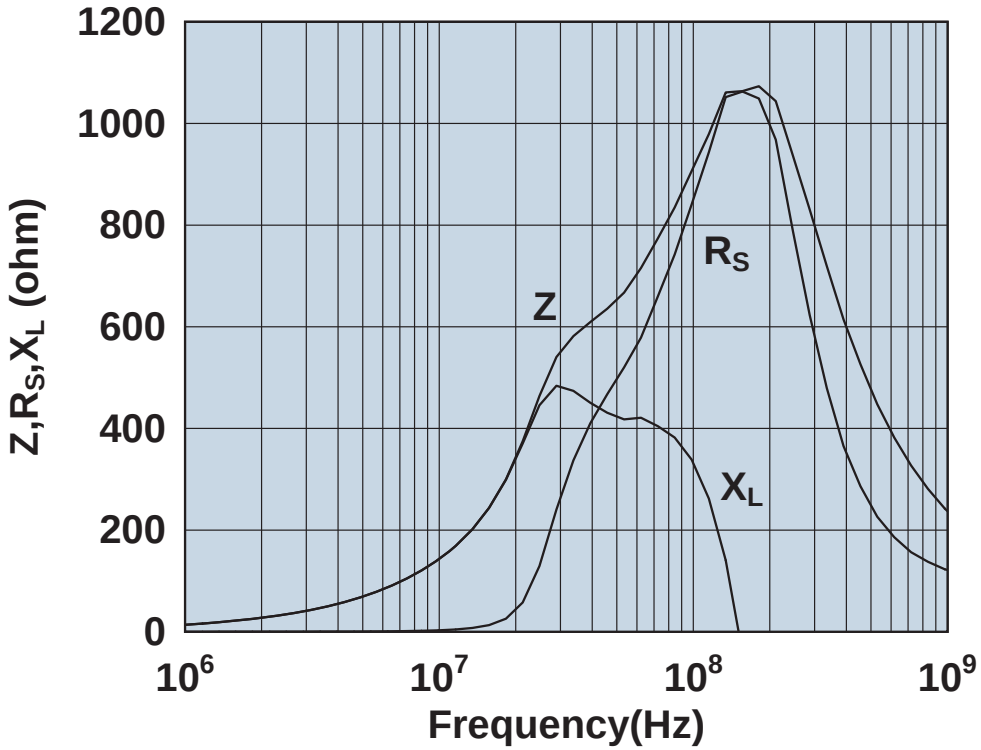


Impedance, reactance, and resistance vs. frequency.

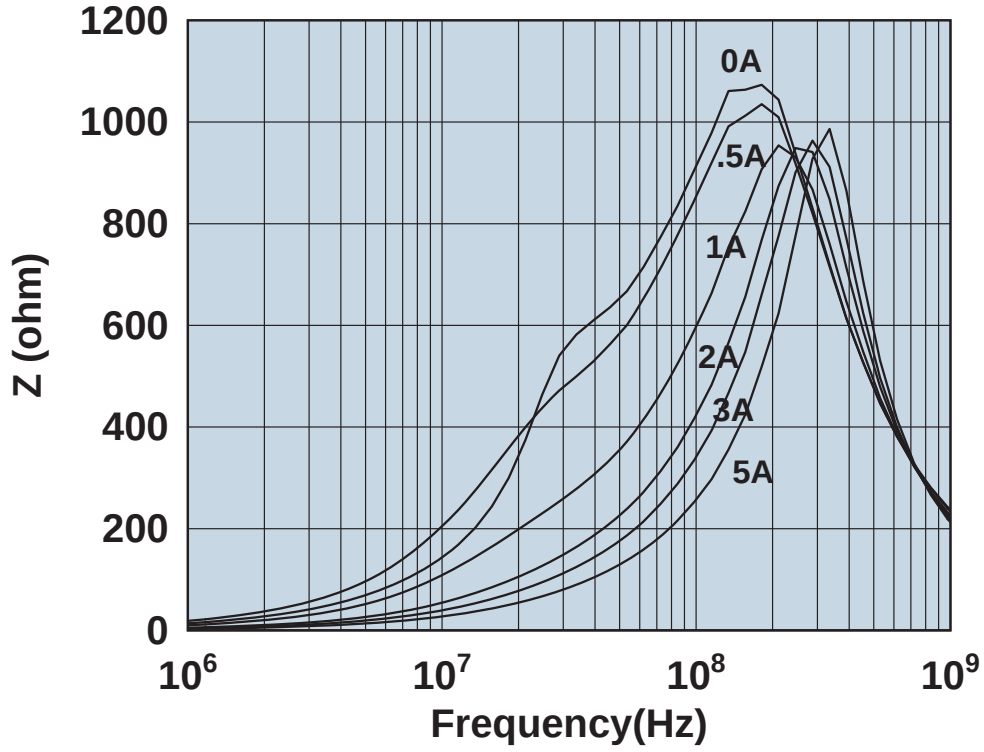


Impedance vs. frequency with dc bias.

2961666671

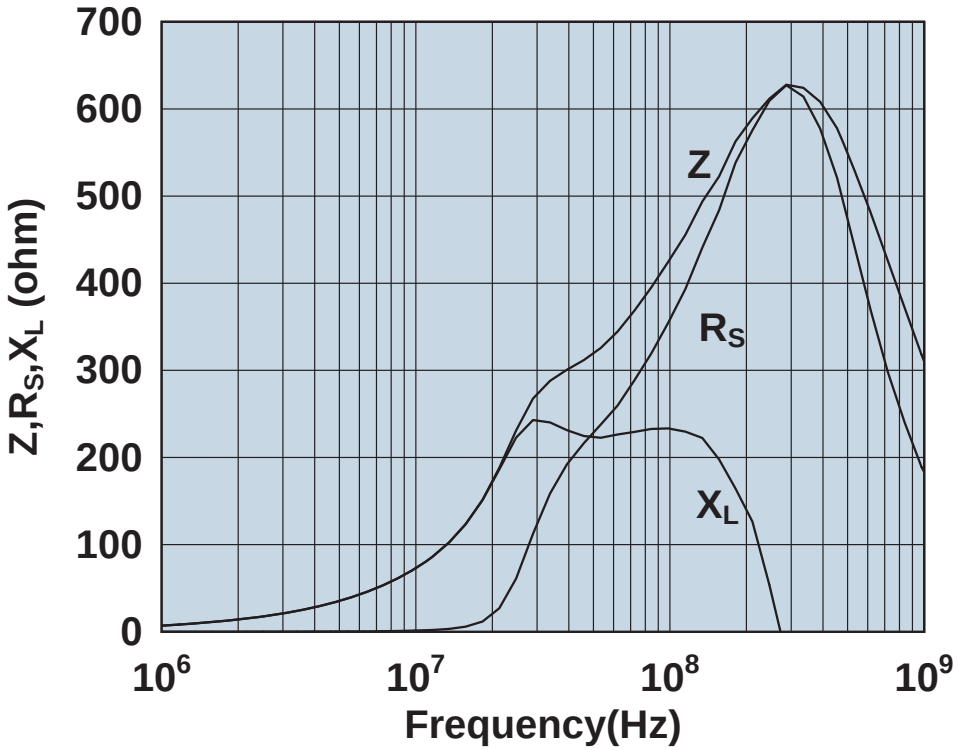


Impedance, reactance, and resistance vs. frequency.

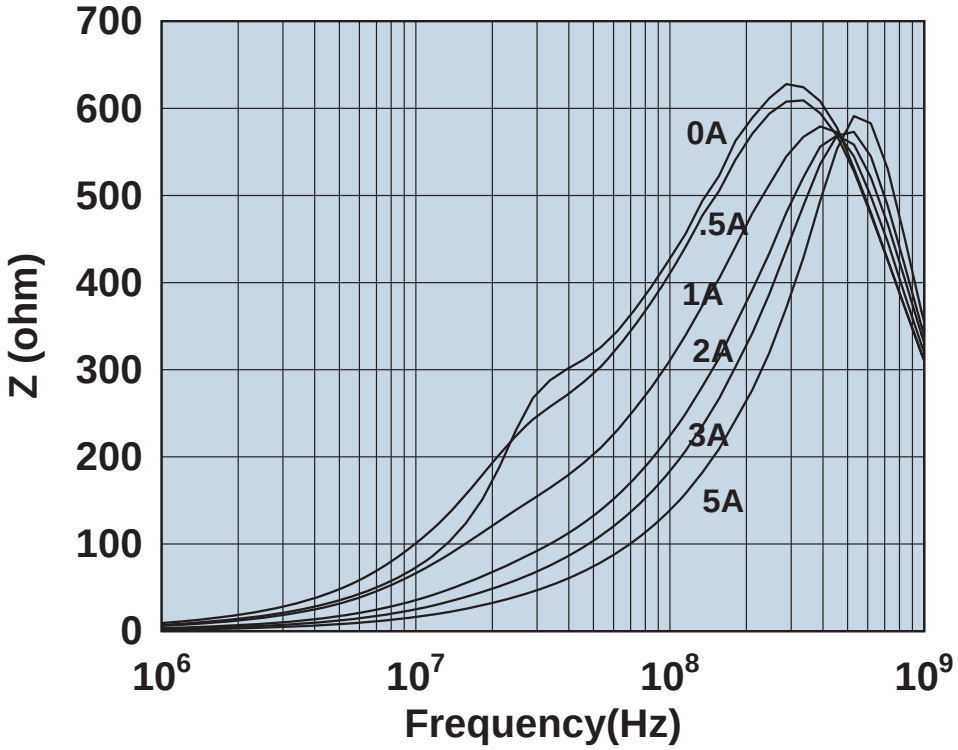


Impedance vs. frequency with dc bias.

2961666681



Impedance, reactance, and resistance vs. frequency.



Impedance vs. frequency with dc bias.