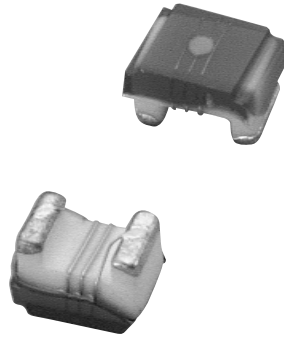




ACS TYPE

WIRE WOUND HIGH FREQUENCY INDUCTOR



FEATURE

- Meet SONY SS-00259's criteria for lead-free product.
- Ceramic body and wire wound construction provide highest SRFs.
- These ultra - compact inductors provided exceptional Q values, even at high frequencies.
- Their ceramic construction delivers the highest possible SRFs as well as excellent Q values.

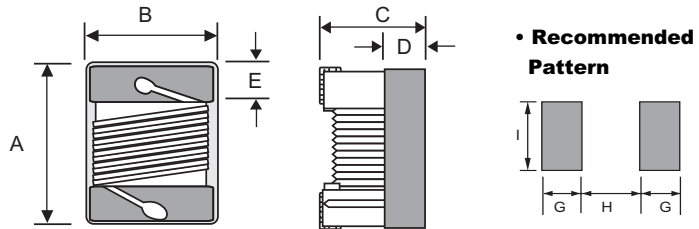
The non-magnetic coil form also assures the utmost in thermal stability, predictability and batch consistency.

- CS series is standard parts for RF designers.

APPLICATION

- For high-frequency applications including mobile phones, portable phones, such as PA, ANT, VCO, SAW, etc.
- Mobile phones such as GSM, CDMA, PDC, etc.
- Bluetooth, W-LAN

SHAPES & DIMENSION



Dimension in m/m

TYPE	A	B	C	D	E	H	I	G
ACS0402	1.19	0.64	0.66	0.25	0.23±0.1	0.46	0.66	0.36
ACS0603	1.8	1.2	1.02	0.38	0.35±0.1	0.64	1.02	0.64
ACS0805	2.4	1.6	1.4	0.51	0.44±0.1	0.76	1.78	1.02
ACS1008	2.9	2.5	2.03	1.2	0.55±0.1	1.27	2.54	1.02

ELECTRICAL CHARACTERISTICS

Our Product Part Number	Inductance (nH)/MHz	Inductance tolerance	Q Min.	900MHz		1.7GHz		SRF (GHz)		RDC(Ω)		Idc(mA)	
				Ltyp	Q typ	Ltyp	Q typ	Min.	Max.	Min.	Max.		
ACS0402C-1N0□-T	1.0 /250	B,S	16	1.07	77	1.02	69	7.0	0.054	1360			
ACS0402C-2N0□-T	2.0 /250	B,S	16	1.93	54	1.93	75	7.0	0.084	1040			
ACS0402C-2N2□-T	2.2 /250	B,S	19	2.19	59	2.23	100	7.0	0.084	960			
ACS0402C-2N7□-T	2.7 /250	B,S	19	2.94	50	2.96	75	7.0	0.095	840			
ACS0402C-3N3□-T	3.3 /250	B,S	19	3.10	65	3.12	87	7.0	0.079	840			
ACS0402C-3N9□-T	3.9 /250	B,S	19	3.89	50	4.00	75	6.0	0.079	840			
ACS0402C-5N2□-T	5.2 /250	B,J,K	20	5.15	56	5.25	82	4.8	0.120	640			
ACS0402C-5N6□-T	5.6 /250	B,J,K	20	5.16	54	5.28	81	4.7	0.099	760			
ACS0402C-6N8□-T	6.8 /250	B,J,K	20	6.56	63	6.93	78	4.8	0.099	680			
ACS0402C-8N2□-T	8.2 /250	B,J,K	21	8.50	57	8.85	84	4.4	0.136	680			
ACS0402C-8N5□-T	8.5 /250	B,J,K	24	8.50	57	8.85	84	4.4	0.150	680			
ACS0402C-9N0□-T	9.0 /250	B,J,K	24	8.70	47	8.95	65	3.9	0.170	680			
ACS0402C-10N□-T	10 /250	G,J,K	21	9.80	50	10.10	67	3.9	0.240	480			
ACS0402C-12N□-T	12 /250	G,J,K	24	11.90	53	12.70	71	3.6	0.168	640			
ACS0402C-15N□-T	15 /250	G,J,K	24	14.60	55	15.50	77	3.3	0.204	560			
ACS0402C-18N□-T	18 /250	G,J,K	24	18.30	57	20.28	62	3.1	0.276	420			
ACS0402C-22N□-T	22 /250	G,J,K	24	23.20	53	26.75	53	2.8	0.360	400			
ACS0402C-27N□-T	27 /250	G,J,K	24	28.70	49	33.50	63	2.5	0.360	400			
ACS0402C-33N□-T	33 /250	G,J,K	24	34.90	31	41.74	32	2.4	0.450	400			
ACS0402C-39N□-T	39 /250	G,J,K	25	41.70	47	50.23	45	2.1	0.660	200			
ACS0402C-43N□-T	43 /250	G,J,K	25	45.80	46	61.55	34	2.0	0.744	175			
ACS0402C-47N□-T	47 /250	G,J,K	20	50.00	38	-	-	2.1	0.792	175			
ACS0402C-56N□-T	56 /250	G,J,K	22	62.80	42	-	-	1.8	0.780	175			
ACS0402C-68N□-T	68 /250	G,J,K	22	78.19	36	-	-	1.6	0.912	150			
ACS0402C-82N□-T	82 /250	G,J,K	22	88.97	40	-	-	1.26	1.55	50			
ACS0402C-R10□-T	100 /250	G,J,K	22	104.00	40	-	-	1.16	2.0	30			

1. Inductance and Q-value : HP 4287A LCR meter, or equivalent

ACS TYPE

WIRE WOUND HIGH FREQUENCY INDUCTOR

ELECTRICAL CHARACTERISTICS

Our Product Part Number	Inductance (nH)/MHz	Inductance tolerance	Q		1.7GHz		SRF (GHz)		RDC(Ω)		Idc(mA) Max.
			Min.	Ltyp Q typ	Ltyp	Q typ	Min.	Max.	Min.	Max.	
ACS0603C-2N0□-T	2.0/250	B,S	13/250	2.02	35	2.04	50	8000	0.07	700	
ACS0603C-3N9□-T	3.9/250	B,S	22/250	3.95	49	3.96	67	6900	0.07	700	
ACS0603C-4N7□-T	4.7/250	B,S	20/250	4.72	47	4.75	57	5800	0.12	700	
ACS0603C-6N8□-T	6.8/250	B,J,K	27/250	6.75	60	7.10	81	5800	0.08	700	
ACS0603C-8N2□-T	8.2/250	B,J,K	30/250	8.25	82	8.37	87	4200	0.13	700	
ACS0603C-10N□-T	10/250	G,J,K	31/250	10.0	66	10.6	83	4800	0.13	700	
ACS0603C-12N□-T	12/250	G,J,K	35/250	12.3	72	13.5	83	4000	0.13	700	
ACS0603C-15N□-T	15/250	G,J,K	35/250	15.4	64	16.8	89	4000	0.13	700	
ACS0603C-18N□-T	18/250	G,J,K	35/250	18.7	70	21.4	69	3100	0.16	700	
ACS0603C-22N□-T	22/250	G,J,K	38/250	22.8	73	26.1	71	3000	0.23	700	
ACS0603C-24N□-T	24/250	G,J,K	38/250	25.3	78	28.1	75	2800	0.13	700	
ACS0603C-27N□-T	27/250	G,J,K	40/250	29.2	74	34.6	65	2800	0.14	600	
ACS0603C-33N□-T	33/250	G,J,K	40/250	36.0	67	49.5	42	2300	0.22	600	
ACS0603C-39N□-T	39/250	G,J,K	40/250	42.7	60	60.2	40	2200	0.30	600	
ACS0603C-47N□-T	47/200	G,J,K	38/250	52.2	62	77.2	35	2000	0.35	600	
ACS0603C-56N□-T	56/200	G,J,K	38/250	62.5	56	97	26	1900	0.37	600	
ACS0603C-68N□-T	68/200	G,J,K	37/250	80.5	54	168	21	1700	0.43	600	
ACS0603C-72N□-T	72/150	G,J,K	34/250	82.0	53	135	20	1700	0.42	400	
ACS0603C-82N□-T	82/150	G,J,K	34/250	96.2	54	177	21	1700	0.71	400	
ACS0603C-R10□-T	100/150	G,J,K	34/250	124	49	-	-	1400	0.78	400	
ACS0603C-R12□-T	120/150	G,J,K	32/250	166	39	-	-	1300	0.84	300	
ACS0603C-R15□-T	150/150	G,J,K	28/250	250	25	-	-	990	0.96	280	
ACS0603C-R18□-T	180/100	G,J,K	25/250	305	22	-	-	990	1.52	240	
ACS0603C-R22□-T	220/100	G,J,K	25/250	-	-	-	-	900	2.02	200	
ACS0603C-R27□-T	270/100	G,J,K	24/250	-	-	-	-	900	2.36	170	
ACS0603C-R33□-T	330/100	G,J,K	24/250	-	-	-	-	700	2.20	185	
ACS0603C-R39□-T	390/100	G,J,K	24/250	-	-	-	-	900	3.60	100	

1. Tolerance : B=±0.2nH , S=±0.3nH , G=±2% , J=±5% , K=±10% (Table shows stock tolerances in □)

ELECTRICAL CHARACTERISTICS

Our Product Part Number	Inductance (nH)/MHz	Inductance Tolerance	Q/MHz Min.	SRF(Min.) (MHz)	DCR (Ω)Max.	Irms Max. (mA)
ACS0805C-3N9□-T	3.9/250	B,S	70/1500	5750	0.04	800
ACS0805C-4N7□-T	4.7/250	B,S	70/1500	5750	0.04	800
ACS0805C-6N8□-T	6.8/250	B,J,K	70/1500	5500	0.06	800
ACS0805C-8N2□-T	8.2/250	B,J,K	70/1000	4700	0.06	800
ACS0805C-10N□-T	10/250	G,J,K	70/1000	4200	0.08	600
ACS0805C-12N□-T	12/250	G,J,K	80/1000	4000	0.08	600
ACS0805C-15N□-T	15/250	G,J,K	80/1000	3400	0.10	600
ACS0805C-18N□-T	18/250	G,J,K	80/1000	3300	0.10	600
ACS0805C-22N□-T	22/250	G,J,K	60/500	2600	0.12	600
ACS0805C-27N□-T	27/250	G,J,K	60/500	2500	0.12	600
ACS0805C-33N□-T	33/250	G,J,K	60/500	2050	0.13	600
ACS0805C-39N□-T	39/250	G,J,K	65/500	2000	0.15	600
ACS0805C-47N□-T	47/200	G,J,K	65/500	1650	0.17	600
ACS0805C-56N□-T	56/200	G,J,K	65/500	1550	0.19	600
ACS0805C-68N□-T	68/200	G,J,K	60/500	1450	0.22	500
ACS0805C-82N□-T	82/150	G,J,K	55/500	1300	0.40	400
ACS0805C-R10□-T	100/150	G,J,K	55/500	1200	0.52	400
ACS0805C-R12□-T	120/150	G,J,K	50/250	1100	0.55	400
ACS0805C-R15□-T	150/150	G,J,K	50/250	920	0.73	400
ACS0805C-R18□-T	180/100	G,J,K	50/500	870	0.88	400
ACS0805C-R22□-T	220/100	G,J,K	50/500	850	1.18	340
ACS0805C-R27□-T	270/100	G,J,K	48/250	650	1.36	310
ACS0805C-R33□-T	330/100	G,J,K	40/250	600	1.40	300
ACS0805C-R39□-T	390/100	G,J,K	25/250	560	1.50	290
ACS0805C-R47□-T	470/50	G,J,K	25/100	375	1.76	250
ACS0805C-R56□-T	560/25	G,J,K	23/100	340	1.90	210
ACS0805C-R68□-T	680/25	G,J,K	23/100	200	2.15	200
ACS0805C-R75□-T	750/25	G,J,K	20/100	200	2.25	185
ACS0805C-R82□-T	820/25	G,J,K	20/100	200	2.50	170
ACS0805C-1R0□-T	1000/25	G,J,K	15/50	100	2.60	170
ACS0805C-1R2□-T	1200/25	G,J,K	15/50	100	3.00	160

1. Tolerance : B=±0.2nH , S=±0.3nH , G=±2% , J=±5% , K=±10% (Table shows stock tolerances in □)

ACS TYPE

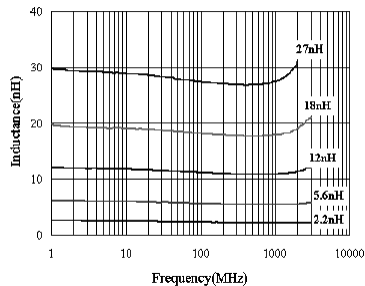
WIRE WOUND HIGH FREQUENCY INDUCTOR

ELECTRICAL CHARACTERISTICS

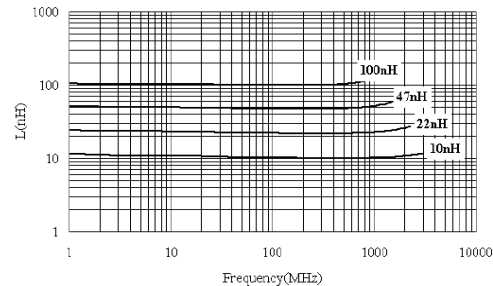
Our Product Part Number	Inductance (nH)/MHz	Inductance Tolerance	Q/MHz Min.	SRF(Min.) (MHz)	DCR (Ω)Max.	Irms Max. (mA)
ACS1008C-3N9□-T	3.9/50	B,S	60/1500	5000	0.08	1000
ACS1008C-10N□-T	10/50	G,J,K	50/500	4100	0.08	1000
ACS1008C-15N□-T	15/50	G,J,K	50/500	2500	0.10	1000
ACS1008C-18N□-T	18/50	G,J,K	50/350	2400	0.10	1000
ACS1008C-22N□-T	22/50	G,J,K	55/350	2400	0.13	1000
ACS1008C-24N□-T	24/50	G,J,K	55/350	1900	0.13	1000
ACS1008C-27N□-T	27/50	G,J,K	55/350	1600	0.13	1000
ACS1008C-33N□-T	33/50	G,J,K	60/350	1600	0.15	1000
ACS1008C-39N□-T	39/50	G,J,K	60/350	1500	0.15	1000
ACS1008C-47N□-T	47/50	G,J,K	65/350	1500	0.18	1000
ACS1008C-56N□-T	56/50	G,J,K	65/350	1300	0.21	1000
ACS1008C-68N□-T	68/50	G,J,K	65/350	1300	0.21	1000
ACS1008C-75N□-T	75/50	G,J,K	60/350	1100	0.24	1000
ACS1008C-82N□-T	82/50	G,J,K	60/350	1000	0.24	1000
ACS1008C-R10□-T	100/25	G,J,K	60/350	1000	0.37	650
ACS1008C-R12□-T	120/25	G,J,K	60/350	950	0.42	600
ACS1008C-R15□-T	150/25	G,J,K	45/100	850	0.46	580
ACS1008C-R18□-T	180/25	G,J,K	45/100	750	0.55	620
ACS1008C-R22□-T	220/25	G,J,K	45/100	700	0.58	500
ACS1008C-R24□-T	240/25	G,J,K	45/100	650	0.68	500
ACS1008C-R27□-T	270/25	G,J,K	45/100	600	0.73	500
ACS1008C-R30□-T	300/25	G,J,K	45/100	585	0.78	450
ACS1008C-R33□-T	330/25	G,J,K	45/100	570	0.82	450
ACS1008C-R36□-T	360/25	G,J,K	45/100	530	0.88	470
ACS1008C-R39□-T	390/25	G,J,K	45/100	500	0.92	470
ACS1008C-R47□-T	470/25	G,J,K	45/100	450	1.00	470
ACS1008C-R56□-T	560/25	G,J,K	45/100	415	1.14	400
ACS1008C-R62□-T	620/25	G,J,K	45/100	375	1.20	300
ACS1008C-R68□-T	680/25	G,J,K	45/100	375	1.24	400
ACS1008C-R75□-T	750/25	G,J,K	45/100	360	1.54	360
ACS1008C-R82□-T	820/25	G,J,K	45/100	350	1.61	400
ACS1008C-R91□-T	910/25	G,J,K	35/100	320	1.68	380
ACS1008C-1R0□-T	1000/25	G,J,K	35/100	290	1.75	370
ACS1008C-1R2□-T	1200/7.9	G,J,K	30/100	250	2.00	340
ACS1008C-1R5□-T	1500/7.9	G,J,K	28/100	200	2.23	330
ACS1008C-4R7□-T	4700/7.9	G,J,K	20/25	90	6.30	260

- Inductance is measured in HP-E4991A impedance analyzer with HP-16197A fixture.
- Tolerance : B=±0.2nH , S=±0.3nH , G=±2% , J=±5% , K=±10% (Table shows stock tolerances in □)
- Q measured used HP-E4991A impedance analyzer with HP-16197A fixture .
- SRF is measured in HP ENA-E5071B network analyzer.
- RDC is measured in Chroma 16502 mill ohm meter.(or equivalent)
- Irms For 15°C rise form 25°C ambient.

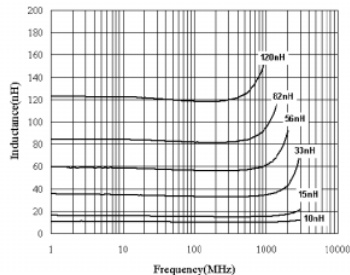
ACS0402C



ACS0805



ACS0805C



ACS1008C

