

HFC SERIES

High Freq. Wound Ceramic Chip Inductors

CUTTING-EDGE TECHNOLOGIES OF EMI/EMC SOLUTIONS

FEATURES

- High frequency applications.
- Low DC resistance and high allowable DC current.
- Close tolerance application. 2% tolerance is available for particular inductance values.
- Small footprint as well as low profile.
- High quality factor.
- Material available for ceramic.
- Consisting of 1005, 1608, 2012, 2520, 3225 sizes.

APPLICATIONS

The HFC chip inductors can be used in a variety of electronics, including:
Cellular Phones, Portable Phones, Pagers, Cable Modems, ADSL, Repeaters

PRODUCT IDENTIFICATION

① ② ③ ④ ⑤
HFC - 1005C - 10NJ □ □

- ① Product Code
- ② Dimensions Code
- ③ Inductance Code
- ④ Tolerance Code
- ⑤ Pattern Code

PRODUCT SERIES

PART NO.	NOTES: DIMENSION IN mm				
	A	B	C	D	E
HFC-1005C	1.0±0.1	0.55±0.1	0.5±0.1	0.20Typ.	0.2±0.1
HFC-1608C	1.6±0.2	1.05±0.2	1.05±0.2	0.50Typ.	0.35±0.1
HFC-2012C	2.0±0.2	1.25±0.2	1.2±0.2	0.60Typ.	0.40±0.1
HFC-2520C	2.6±0.2	2.10±0.2	1.7±0.2	0.70Typ.	0.50±0.1
HFC-3225C	3.2±0.2	2.60±0.2	2.1±0.2	1.10Typ.	0.50±0.1

LAND PATTERN

PART NO.	NOTES: DIMENSION IN mm		
	F	G	H
HFC-1005C	1.20	0.45	0.65
HFC-1608C	1.90	0.65	1.00
HFC-2012C	2.60	0.75	1.30
HFC-2520C	3.00	1.20	2.20
HFC-3225C	4.00	1.70	2.82

Wire Wound SMD Type

■ PRODUCT SPECIFICATIONS

Part Number	Inductance (nH)	Inductance Test Freq. (MHz)	Inductance Tolerance	Q Min.	Q Test Freq. (MHz)	S.R.F.(MHz) Min.	R _{DC} (Ω) Max.	Rated Current (mA) Max.
HFC-1005C-1N0	1.0	250	B,S	13	250	6000	0.045	1360
HFC-1005C-1N8	1.8	250	B,S	16	250	6000	0.070	1040
HFC-1005C-1N9	1.9	250	B,S	16	250	6000	0.070	1040
HFC-1005C-2N0	2.0	250	B,S	16	250	6000	0.070	1040
HFC-1005C-2N2	2.2	250	B,S	18	250	6000	0.070	960
HFC-1005C-2N4	2.4	250	B,S	16	250	6000	0.068	790
HFC-1005C-2N7	2.7	250	B,S	16	250	6000	0.120	640
HFC-1005C-3N3	3.3	250	B,J,K	20	250	6000	0.066	840
HFC-1005C-3N6	3.6	250	B,J,K	20	250	6000	0.066	840
HFC-1005C-3N9	3.9	250	B,J,K	20	250	5800	0.066	840
HFC-1005C-4N3	4.3	250	B,J,K	18	250	6000	0.091	700
HFC-1005C-4N7	4.7	250	B,J,K	15	250	4775	0.130	640
HFC-1005C-5N1	5.1	250	B,J,K	23	250	5800	0.083	800
HFC-1005C-5N6	5.6	250	B,J,K	23	250	5800	0.083	760
HFC-1005C-6N2	6.2	250	B,J,K	23	250	5800	0.083	760
HFC-1005C-6N8	6.8	250	B,J,K	20	250	4800	0.083	680
HFC-1005C-7N5	7.5	250	B,J,K	25	250	5800	0.104	680
HFC-1005C-8N2	8.2	250	B,J,K	25	250	4400	0.104	680
HFC-1005C-8N7	8.7	250	B,J,K	18	250	4100	0.200	480
HFC-1005C-9N0	9.0	250	B,J,K	25	250	4160	0.104	680
HFC-1005C-9N5	9.5	250	B,J,K	18	250	4000	0.200	680
HFC-1005C-10N	10	250	G,J,K	23	250	3900	0.195	480
HFC-1005C-11N	11	250	G,J,K	26	250	3680	0.120	640
HFC-1005C-12N	12	250	G,J,K	26	250	3600	0.120	640
HFC-1005C-13N	13	250	G,J,K	24	250	3450	0.210	560
HFC-1005C-15N	15	250	G,J,K	26	250	3280	0.172	560
HFC-1005C-16N	16	250	G,J,K	24	250	3100	0.220	560
HFC-1005C-18N	18	250	G,J,K	25	250	3100	0.230	420
HFC-1005C-19N	19	250	G,J,K	26	250	3040	0.202	480
HFC-1005C-20N	20	250	G,J,K	25	250	3000	0.250	420
HFC-1005C-22N	22	250	G,J,K	25	250	2800	0.300	400
HFC-1005C-23N	23	250	G,J,K	26	250	2720	0.214	400
HFC-1005C-24N	24	250	G,J,K	25	250	2700	0.300	400
HFC-1005C-27N	27	250	G,J,K	26	250	2480	0.298	400
HFC-1005C-30N	30	250	G,J,K	25	250	2350	0.300	400
HFC-1005C-33N	33	250	G,J,K	24	250	2350	0.350	400
HFC-1005C-36N	36	250	G,J,K	26	250	2320	0.403	320
HFC-1005C-39N	39	250	G,J,K	25	250	2100	0.550	320
HFC-1005C-40N	40	250	G,J,K	26	250	2240	0.438	320
HFC-1005C-43N	43	250	G,J,K	25	250	2030	0.810	230
HFC-1005C-47N	47	200	G,J,K	26	200	2100	0.830	210
HFC-1005C-51N	51	200	J,K	25	200	1750	0.820	210
HFC-1005C-56N	56	200	J,K	22	200	1760	0.970	200
HFC-1005C-68N	68	200	J,K	22	200	1620	1.120	180
HFC-1005C-82N	82	150	J,K	20	150	1500	1.250	150
HFC-1005C-R10	100	150	J,K	20	150	1300	2.520	120
HFC-1005C-R12	120	150	J,K	20	150	1100	2.660	110

Please specify the inductance tolerance, B($\pm 0.2nH$),S($\pm 0.3nH$),G($\pm 2\%$),J($\pm 5\%$),K($\pm 10\%$)

■ PRODUCT SPECIFICATIONS

Part Number	Inductance (nH)	Inductance Test Freq. (MHz)	Inductance Tolerance	Q Min.	Q Test Freq. (MHz)	S.R.F.(MHz) Min.	R _{DC} (Ω) Max.	Rated Current (mA) Max.
HFC-1608C-1N6	1.6	250	B,S	24	250	12500	0.030	700
HFC-1608C-1N8	1.8	250	B,S	16	250	12500	0.045	700
HFC-1608C-2N0	2.0	250	B,S	16	250	6900	0.080	700
HFC-1608C-3N3	3.3	250	B,S	22	250	6900	0.060	700
HFC-1608C-3N6	3.6	250	B,S	22	250	5900	0.063	700
HFC-1608C-3N9	3.9	250	B,S	22	250	6900	0.080	700
HFC-1608C-4N3	4.3	250	B,S	22	250	5900	0.080	700
HFC-1608C-4N7	4.7	250	B,S	20	250	5800	0.130	700
HFC-1608C-5N6	5.6	250	J,K	16	250	5500	0.150	700
HFC-1608C-6N8	6.8	250	B,J,K	30	250	5800	0.110	700
HFC-1608C-7N5	7.5	250	B,J,K	28	250	4800	0.106	700
HFC-1608C-8N2	8.2	250	B,J,K	30	250	4600	1.000	700
HFC-1608C-10N	10	250	G,J,K	30	250	3800	0.130	700
HFC-1608C-12N	12	250	G,J,K	35	250	4000	0.130	700
HFC-1608C-15N	15	250	G,J,K	35	250	4000	0.170	700
HFC-1608C-18N	18	250	G,J,K	38	250	3100	0.170	700
HFC-1608C-22N	22	250	G,J,K	38	250	3000	0.220	700
HFC-1608C-27N	27	250	G,J,K	40	250	2800	0.220	600
HFC-1608C-30N	30	250	G,J,K	43	250	2300	0.220	600
HFC-1608C-33N	33	250	G,J,K	43	250	2300	0.220	600
HFC-1608C-39N	39	250	G,J,K	43	250	2200	0.250	600
HFC-1608C-47N	47	200	G,J,K	40	200	2000	0.280	600
HFC-1608C-56N	56	200	G,J,K	40	200	1900	0.310	600
HFC-1608C-68N	68	200	G,J,K	40	200	1700	0.340	600
HFC-1608C-72N	72	150	G,J,K	35	150	1700	0.490	400
HFC-1608C-82N	82	150	G,J,K	35	150	1700	0.540	400
HFC-1608C-R10	100	150	G,J,K	35	150	1400	0.630	400
HFC-1608C-R11	110	150	G,J,K	35	150	1400	0.630	400
HFC-1608C-R12	120	150	G,J,K	35	150	1300	0.650	300
HFC-1608C-R15	150	150	G,J,K	35	150	1000	0.920	280
HFC-1608C-R18	180	100	G,J,K	30	100	1000	1.250	240
HFC-1608C-R22	220	100	G,J,K	30	100	1000	1.700	200
HFC-1608C-R24	240	100	G,J,K	30	100	1000	1.700	200
HFC-1608C-R27	270	100	G,J,K	30	100	1000	1.800	170
HFC-1608C-R33	330	100	G,J,K	25	100	450	2.000	150
HFC-1608C-R39	390	100	G,J,K	20	100	350	2.000	170

Please specify the inductance tolerance, B(±0.2nH),S(±0.3nH),G(±2%),J(±5%),K(±10%)

Wire Wound SMD Type

■ PRODUCT SPECIFICATIONS

Part Number	Inductance (nH)	Inductance Test Freq. (MHz)	Inductance Tolerance	Q Min.	Q Test Freq. (MHz)	S.R.F.(MHz) Min.	R _{DC} (Ω) Max.	Rated Current (mA) Max.
HFC-2012C-2N2	2.2	250	B,S	50	1000	6000	0.06	800
HFC-2012C-2N7	2.7	250	B,S	35	1000	6000	0.08	800
HFC-2012C-3N3	3.3	250	B,S	60	1000	6000	0.08	800
HFC-2012C-3N9	3.9	250	B,S	60	1000	6000	0.06	600
HFC-2012C-4N7	4.7	250	B,S	60	1000	5800	0.06	600
HFC-2012C-5N1	5.1	250	B,J,K	60	1000	5800	0.08	600
HFC-2012C-5N6	5.6	250	B,J,K	60	1000	5800	0.08	600
HFC-2012C-6N8	6.8	250	B,J,K	60	1000	5500	0.06	600
HFC-2012C-8N2	8.2	250	B,J,K	60	1000	5500	0.06	600
HFC-2012C-10N	10	250	G,J,K	60	500	4800	0.08	600
HFC-2012C-12N	12	250	G,J,K	60	500	4100	0.08	600
HFC-2012C-15N	15	250	G,J,K	60	500	3600	0.08	600
HFC-2012C-18N	18	250	G,J,K	60	500	3400	0.08	600
HFC-2012C-22N	22	250	G,J,K	60	500	3300	0.10	600
HFC-2012C-27N	27	250	G,J,K	60	500	2600	0.12	600
HFC-2012C-33N	33	250	G,J,K	60	500	2400	0.15	500
HFC-2012C-39N	39	250	G,J,K	60	500	2100	0.18	500
HFC-2012C-47N	47	200	G,J,K	60	500	1700	0.15	500
HFC-2012C-56N	56	200	G,J,K	60	500	1600	0.25	500
HFC-2012C-68N	68	200	G,J,K	60	500	1450	0.27	500
HFC-2012C-82N	82	150	G,J,K	60	500	1350	0.32	500
HFC-2012C-R10	100	150	G,J,K	60	500	1200	0.43	500
HFC-2012C-R12	120	150	G,J,K	50	250	1100	0.48	500
HFC-2012C-R15	150	100	G,J,K	50	250	950	0.56	400
HFC-2012C-R18	180	100	G,J,K	50	250	900	0.78	400
HFC-2012C-R22	220	100	G,J,K	50	250	860	1.00	400
HFC-2012C-R27	270	100	G,J,K	45	250	850	1.46	350
HFC-2012C-R30	300	100	G,J,K	45	250	800	1.65	300
HFC-2012C-R33	330	100	G,J,K	45	250	800	1.65	300
HFC-2012C-R39	390	100	G,J,K	45	250	780	2.20	210

Please specify the inductance tolerance, B($\pm 0.2nH$),S($\pm 0.3nH$),G($\pm 2\%$),J($\pm 5\%$),K($\pm 10\%$)

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Part Number	Inductance (nH)	Inductance Test Freq. (MHz)	Inductance Tolerance	Q Min.	Q Test Freq. (MHz)	S.R.F. (MHz) Min.	R _{DC} (Ω) Max.	Rated Current (mA) Max.
HFC-2520C-3N3	3.3	100	B,S	50	1000	6000	0.06	1000
HFC-2520C-6N8	6.8	100	B,J,K	50	1000	5500	0.06	1000
HFC-2520C-8N2	8.2	100	B,J,K	50	1000	5500	0.06	1000
HFC-2520C-10N	10	100	G,J,K	50	1000	4300	0.08	1000
HFC-2520C-12N	12	100	G,J,K	60	500	3600	0.08	1000
HFC-2520C-15N	15	100	G,J,K	60	500	2700	0.08	1000
HFC-2520C-18N	18	100	G,J,K	60	350	2700	0.10	1000
HFC-2520C-22N	22	100	G,J,K	60	350	2500	0.10	1000
HFC-2520C-27N	27	100	G,J,K	60	350	1800	0.10	1000
HFC-2520C-33N	33	100	G,J,K	60	350	1700	0.10	1000
HFC-2520C-39N	39	100	G,J,K	60	350	1500	0.10	1000
HFC-2520C-47N	47	100	G,J,K	60	350	1500	0.10	1000
HFC-2520C-56N	56	100	G,J,K	60	350	1350	0.12	1000
HFC-2520C-68N	68	100	G,J,K	60	350	1300	0.15	1000
HFC-2520C-82N	82	100	G,J,K	60	350	1100	0.18	1000
HFC-2520C-R10	100	100	G,J,K	60	350	1100	0.18	1000
HFC-2520C-R12	120	25	G,J,K	45	100	950	0.20	800
HFC-2520C-R15	150	25	G,J,K	45	100	880	0.22	800
HFC-2520C-R18	180	25	G,J,K	45	100	800	0.33	800
HFC-2520C-R22	220	25	G,J,K	45	100	730	0.45	800
HFC-2520C-R27	270	25	G,J,K	45	100	650	0.75	600
HFC-2520C-R33	330	25	G,J,K	45	100	570	0.90	500
HFC-2520C-R39	390	25	G,J,K	45	100	530	1.06	470
HFC-2520C-R47	470	25	G,J,K	45	100	480	1.17	420
HFC-2520C-R56	560	25	G,J,K	45	100	430	1.50	310
HFC-2520C-R62	620	25	G,J,K	45	100	390	1.90	310
HFC-2520C-R68	680	25	G,J,K	45	100	380	2.06	230
HFC-2520C-R75	750	25	G,J,K	45	100	360	2.20	200
HFC-2520C-R82	820	25	G,J,K	45	100	350	2.30	180
HFC-2520C-R91	910	25	G,J,K	45	100	330	3.18	150
HFC-2520C-1R0	1000	25	G,J,K	35	50	310	3.30	120

Please specify the inductance tolerance, B(±0.2nH),S(±0.3nH),G(±2%),J(±5%),K(±10%)

Wire Wound SMD Type

■ PRODUCT SPECIFICATIONS

Part Number	Inductance (nH)	Inductance Test Freq. (MHz)	Inductance Tolerance	Q Min.	Q Test Freq. (MHz)	S.R.F. (MHz) Min.	R _{DC} (Ω) Max.	Rated Current (mA) Max.
HFC-3225C-4N7	4.7	100	B,S	50	1000	6000	0.06	1000
HFC-3225C-5N6	5.6	100	B,J,K	50	1000	5500	0.08	1000
HFC-3225C-10N	10	100	G,J,K	60	500	4000	0.06	1000
HFC-3225C-12N	12	100	G,J,K	60	500	3400	0.06	1000
HFC-3225C-15N	15	100	G,J,K	60	500	3200	0.06	1000
HFC-3225C-18N	18	100	G,J,K	60	300	2800	0.06	1000
HFC-3225C-22N	22	100	G,J,K	60	300	2100	0.08	1000
HFC-3225C-27N	27	100	G,J,K	60	300	1900	0.08	1000
HFC-3225C-33N	33	100	G,J,K	60	300	1700	0.08	1000
HFC-3225C-39N	39	100	G,J,K	60	300	1700	0.08	1000
HFC-3225C-47N	47	100	G,J,K	60	300	1400	0.08	1000
HFC-3225C-56N	56	100	G,J,K	60	300	1100	0.10	1000
HFC-3225C-68N	68	100	G,J,K	60	300	1000	0.10	1000
HFC-3225C-82N	82	100	G,J,K	60	300	1000	0.10	1000
HFC-3225C-R10	100	100	G,J,K	60	300	900	0.10	1000
HFC-3225C-R12	120	50	G,J,K	60	300	900	0.12	800
HFC-3225C-R15	150	50	G,J,K	60	300	800	0.18	800
HFC-3225C-R18	180	50	G,J,K	60	300	760	0.21	800
HFC-3225C-R22	220	50	G,J,K	60	300	660	0.27	800
HFC-3225C-R27	270	50	G,J,K	50	300	600	0.33	700
HFC-3225C-R33	330	50	G,J,K	50	100	550	0.37	650
HFC-3225C-R39	390	50	G,J,K	50	100	500	0.63	600
HFC-3225C-R47	470	50	G,J,K	50	100	450	0.69	550
HFC-3225C-R56	560	50	G,J,K	50	100	400	0.90	450
HFC-3225C-R68	680	25	G,J,K	50	100	380	1.05	400
HFC-3225C-R82	820	25	G,J,K	50	100	350	1.45	350
HFC-3225C-1R0	1000	25	G,J,K	45	100	300	1.90	280
HFC-3225C-1R2	1200	7.96	J,K	45	50	300	2.20	250
HFC-3225C-1R5	1500	7.96	J,K	45	50	250	2.43	220
HFC-3225C-1R8	1800	7.96	J,K	45	50	200	3.36	180
HFC-3225C-2R2	2200	7.96	J,K	45	50	200	3.50	150

Please specify the inductance tolerance, B($\pm 0.2nH$),S($\pm 0.3nH$),G($\pm 2\%$),J($\pm 5\%$),K($\pm 10\%$)