

HIGH PERFORMANCE CHIP INDUCTOR DATA SUMMARY

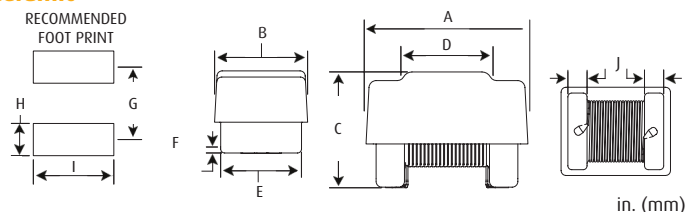
Ferrite & Ceramic Wirewound High Performance Chips



Ceramic High Performance Surface Mount Chip Inductor

PART NUMBER	L μ H	L TEST FREQ MHz	Q MIN	Q TEST FREQ MHz	SRF MHZ MIN	DCR Ω MAX	CURRENT RATING mA DC
CC4H1008							
CC4H1008-0082M	8.2	50	50	500	3200	0.090	1840
CC4H1008-010K	10	50	50	500	3100	0.090	1840
CC4H1008-012K	12	50	55	500	3000	0.100	1740
CC4H1008-015K	15	50	60	400	2800	0.100	1740
CC4H1008-018K	18	50	65	350	2600	0.110	1600
CC4H1008-022K	22	50	70	350	2400	0.110	1600
CC4H1008-027K	27	50	70	350	2200	0.120	1520
CC4H1008-033K	33	50	70	350	2000	0.130	1460
CC4H1008-039K	39	50	75	350	1800	0.140	1340
CC4H1008-047K	47	50	75	350	1550	0.140	1340
CC4H1008-056J	56	50	75	350	1400	0.160	1260
CC4H1008-068J	68	50	70	350	1300	0.180	1190
CC4H1008-082J	82	50	70	350	1200	0.200	1120
CC4H1008-100J	100	25	70	350	1100	0.210	1100
CC4H1210							
CC4H1210-010K	10	50	45	-	4000	0.080	2000
CC4H1210-012G	12	50	45	-	3500	0.080	2000
CC4H1210-015G	15	50	45	-	3000	0.090	1900
CC4H1210-018G	18	50	40	-	2500	0.090	1900
CC4H1210-022G	22	50	40	-	2200	0.100	1700
CC4H1210-027G	27	50	40	-	2000	0.100	1700
CC4H1210-033G	33	50	40	-	1800	0.110	1520
CC4H1210-039G	39	50	40	-	1600	0.110	1520
CC4H1210-047G	47	50	40	-	1400	0.120	1450
CC4H1210-056G	56	50	40	-	1200	0.130	1400
CC4H1210-068G	68	50	40	-	1100	0.140	1340
CC4H1210-082G	82	50	40	-	1000	0.150	1300
CC4H1812							
CC4H1812-010K	10	50	55	-	3700	0.060	2430
CC4H1812-012K	12	50	55	-	3300	0.060	2430
CC4H1812-015K	15	50	55	-	2900	0.060	2430
CC4H1812-018K	18	50	55	-	2600	0.070	2250
CC4H1812-022K	22	50	50	-	2400	0.080	2100
CC4H1812-027K	27	50	50	-	1800	0.080	2100
CC4H1812-033K	33	50	50	-	1500	0.110	1790
CC4H1812-039G	39	50	50	-	1400	0.120	1720
CC4H1812-047G	47	50	50	-	1300	0.135	1560
CC4H1812-056G	56	50	50	-	1200	0.135	1560
CC4H1812-068G	68	50	50	-	1100	0.135	1560
CC4H1812-082G	82	50	50	-	1000	0.135	1560
CC4H1812-100G	100	50	40	-	1000	0.135	1560

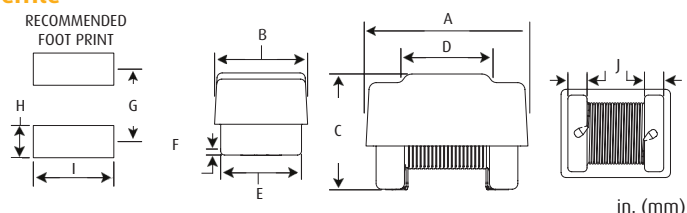
Ceramic



in. (mm)

SERIES	A MAX	B MAX	C MAX	D REF	E REF	F REF	G	H	I	J REF
CC4H1008	0.120 (3.05)	0.110 (2.79)	0.090 (2.28)	0.075 (1.91)	0.080 (2.03)	0.006 (0.15)	0.090 (2.28)	0.040 (1.106)	0.100 (2.54)	0.020 (0.50)
CC4H1210	0.130 (3.30)	0.115 (2.92)	0.130 (3.30)	0.100 (2.54)	0.100 (2.54)	0.009 (0.22)	0.103 (2.62)	0.050 (1.27)	0.115 (2.92)	0.025 (0.64)
CC4H1812	0.210 (5.30)	0.128 (3.30)	0.115 (2.90)	0.150 (3.80)	0.098 (2.50)	0.015 (0.38)	0.177 (4.50)	0.059 (1.50)	0.110 (2.80)	0.025 (0.64)

Ferrite



in. (mm)

SERIES	A MAX	B MAX	C MAX	D REF	E REF	F REF	G	H	I	J REF
CF4H1008	0.120 (3.05)	0.110 (2.79)	0.090 (2.28)	0.075 (1.91)	0.080 (2.03)	0.006 (0.15)	0.090 (2.28)	0.040 (1.106)	0.100 (2.54)	0.020 (0.50)
CF4H1210	0.145 (3.68)	0.110 (2.79)	0.130 (3.30)	0.100 (2.54)	0.080 (2.03)	0.009 (0.22)	0.103 (2.62)	0.050 (1.27)	0.115 (2.92)	0.025 (0.64)
CF4H1812	0.210 (5.30)	0.128 (3.30)	0.115 (2.90)	0.150 (3.80)	0.098 (2.50)	0.015 (0.38)	0.177 (4.50)	0.059 (1.50)	0.110 (2.80)	0.025 (0.64)

NOTES

- Operating Temperature Range: -55°C to +125°C
- Current Rating is based on a 35°C temperature rise at an ambient temperature of 90°C
- Suitable for reflow soldering
- Flat top cover for pick and place
- Excellent for high frequency applications
- No internal solder connection increases reliability
- Very tight distribution within lots
- Extremely high SRF; Exceptional Q
- High current handling capability
- Low DC resistance
- Materials are fungus-inert to meet method 508 of MIL-STD-810H
- Custom designs are available to meet your specific requirements; please contact factory

PART NUMBER DERIVATION

CF4H1008 - 120 G

GEC Series ————

Inductance: 2 signif. digits & mult. ————

ex: 120 = 0.12 μ H, 101 = 1.0 μ H, 102 = 10 μ H, 103 = 100 μ H

Tolerance: M = $\pm$ 20%, K = $\pm$ 10%, J = $\pm$ 5%, G = $\pm$ 2% ————

(Table shows lowest standard tolerance option)

*Optional tolerances are available; contact factory

Termination: Gold over Nickel (standard and RoHS compliant)

HIGH PERFORMANCE CHIP INDUCTOR DATA SUMMARY

Ferrite & Ceramic Wirewound High Performance Chips



Ferrite High Performance Surface Mount Chip Inductor

PART NUMBER	L μH	L TEST FREQ MHz	Q MIN	Q TEST FREQ MHz	SRF MHz MIN	DCR Ω MAX	CURRENT RATING mA DC MAX
CF4H1008							
CF4H1008-120G	0.12	25	45	75	900	0.15	1420
CF4H1008-150G	0.15	25	45	75	800	0.18	1300
CF4H1008-180G	0.18	25	45	75	750	0.20	1230
CF4H1008-220G	0.22	25	45	75	700	0.22	1120
CF4H1008-270G	0.27	25	45	75	600	0.24	1080
CF4H1008-330G	0.33	25	45	75	520	0.25	1050
CF4H1008-390G	0.39	25	40	75	450	0.25	1050
CF4H1008-470G	0.47	25	40	75	400	0.26	1030
CF4H1008-560G	0.56	25	40	75	375	0.27	970
CF4H1008-680G	0.68	25	40	75	330	0.30	920
CF4H1008-820G	0.82	25	40	75	300	0.32	890
CF4H1008-101G	1.0	7.9	35	50	280	0.35	850
CF4H1008-121G	1.2	7.9	35	50	260	0.38	815
CF4H1008-151G	1.5	7.9	35	50	240	0.41	785
CF4H1008-181G	1.8	7.9	35	50	220	0.46	740
CF4H1008-221G	2.2	7.9	35	50	205	0.75	580
CF4H1008-271G	2.7	7.9	35	50	185	0.95	515
CF4H1008-331G	3.3	7.9	35	50	170	1.35	430
CF4H1008-391G	3.9	7.9	35	50	155	1.50	410
CF4H1008-471G	4.7	7.9	35	25	140	1.60	400
CF4H1008-561G	5.6	7.9	35	25	128	1.70	390
CF4H1008-681G	6.8	7.9	30	25	110	2.00	355
CF4H1008-821G	8.2	7.9	30	25	95	2.20	340
CF4H1008-102G	10	7.9	30	25	80	2.40	325
CF4H1008-122G	12	2.5	30	25	70	3.50	270
CF4H1008-152G	15	2.5	30	25	65	4.10	250
CF4H1008-182G	18	2.5	30	7.9	40	5.0	225
CF4H1008-222G	22	2.5	30	7.9	35	6.0	205
CF4H1008-272G	27	2.5	30	7.9	30	7.0	190
CF4H1008-332G	33	2.5	30	7.9	25	8.0	180
CF4H1008-392G	39	2.5	30	7.9	20	9.0	170
CF4H1008-472G	47	2.5	30	2.5	16	10	160
CF4H1008-562G	56	2.5	30	2.5	14	11	152
CF4H1008-682G	68	2.5	30	2.5	12	13	140
CF4H1008-822G	82	2.5	30	2.5	10	14	135
CF4H1008-103G	100	2.5	30	2.5	9.6	16	125
CF4H1008							
CF4H1210-100K	0.10	25	45	-	1100	0.070	2170
CF4H1210-120K	0.12	25	45	-	1100	0.070	2170
CF4H1210-150K	0.15	25	45	-	1050	0.080	1950
CF4H1210-180K	0.18	25	50	-	1050	0.090	1840
CF4H1210-220K	0.22	25	50	-	1000	0.100	1740
CF4H1210-270K	0.27	25	50	-	1000	0.100	1740
CF4H1210-330K	0.33	25	50	-	1000	0.110	1520
CF4H1210-390G	0.39	25	50	-	900	0.170	1220
CF4H1210-470G	0.47	25	45	-	400	0.200	1120
CF4H1210-560G	0.56	25	45	-	400	0.220	1070
CF4H1210-680G	0.68	25	45	-	375	0.250	1000
CF4H1210-820G	0.82	25	45	-	330	0.270	960
CF4H1210-101G	1.0	7.9	45	-	330	0.300	920
CF4H1210-121G	1.2	7.9	40	-	250	0.340	860
CF4H1210-151G	1.5	7.9	40	-	250	0.390	800
CF4H1210-181G	1.8	7.9	40	-	200	0.400	790
CF4H1210-221G	2.2	7.9	40	-	190	0.460	740
CF4H1210-271G	2.7	7.9	40	-	175	0.510	700
CF4H1210-331G	3.3	7.9	40	-	160	0.850	550
CF4H1210-391G	3.9	7.9	40	-	150	0.920	520
CF4H1210-471G	4.7	7.9	45	-	140	1.0	500
CF4H1210-561G	5.6	7.9	45	-	135	1.1	475
CF4H1210-681G	6.8	7.9	45	-	130	1.9	365
CF4H1210-821G	8.2	7.9	40	-	110	2.0	355
CF4H1210-102G	10	7.9	40	-	100	2.2	340
CF4H1210-122G	12	2.5	40	-	70	2.5	320
CF4H1210-152G	15	2.5	40	-	60	2.7	300
CF4H1210-182G	18	2.5	40	-	45	3.0	290
CF4H1210-222G	22	2.5	35	-	22	3.3	275
CF4H1210-272G	27	2.5	35	-	20	3.5	270
CF4H1210-332G	33	2.5	35	-	25	5.3	215

CF4H1210 (cont'd)							
CF4H1210-392G	39	2.5	35	-	25	5.8	210
CF4H1210-472G	47	2.5	35	-	25	6.4	200
CF4H1210-562G	56	2.5	35	-	25	7.0	190
CF4H1210-682G	68	2.5	35	-	20	7.7	180
CF4H1210-822G	82	2.5	35	-	20	8.5	170
CF4H1210-103G	100	2.5	35	-	19	9.5	160
FERRITE CORE							
CF4H1812-120K	0.12	25	40	-	855	0.060	2430
CF4H1812-150K	0.15	25	45	-	690	0.080	2100
CF4H1812-180K	0.18	25	50	-	690	0.080	2100
CF4H1812-220K	0.22	25	55	-	565	0.130	1650
CF4H1812-270K	0.27	25	55	-	565	0.140	1590
CF4H1812-330K	0.33	25	55	-	565	0.150	1540
CF4H1812-390G	0.39	25	60	-	490	0.160	1430
CF4H1812-470G	0.47	25	60	-	435	0.160	1430
CF4H1812-560G	0.56	25	60	-	425	0.180	1350
CF4H1812-680G	0.68	25	55	-	400	0.250	1150
CF4H1812-820G	0.82	25	55	-	290	0.300	1050
CF4H1812-101G	1.0	7.9	53	-	290	0.330	990
CF4H1812-121G	1.2	7.9	50	-	230	0.370	940
CF4H1812-151G	1.5	7.9	50	-	220	0.410	900
CF4H1812-181G	1.8	7.9	50	-	205	0.450	850
CF4H1812-221G	2.2	7.9	50	-	170	0.480	830
CF4H1812-271G	2.7	7.9	50	-	160	0.540	780
CF4H1812-331G	3.3	7.9	50	-	145	0.600	740
CF4H1812-391G	3.9	7.9	55	-	140	0.660	680
CF4H1812-471G	4.7	7.9	55	-	125	0.720	650
CF4H1812-561G	5.6	7.9	55	-	125	0.900	580
CF4H1812-681G	6.8	7.9	55	-	110	1.10	525
CF4H1812-821G	8.2	7.9	60	-	105	1.30	485
CF4H1812-102G	10	7.9	60	-	75	1.50	450
CF4H1812-122G	12	2.5	55	-	70	1.60	435
CF4H1812-152G	15	2.5	50	-	55	1.80	410
CF4H1812-182G	18	2.5	50	-	45	2.00	390
CF4H1812-222G	22	2.5	50	-	35	2.20	370
CF4H1812-272G	27	2.5	50	-	35	2.50	350
CF4H1812-332G	33	2.5	50	-	35	2.80	315
CF4H1812-392G	39	2.5	50	-	30	3.10	300
CF4H1812-472G	47	2.5	50	-	30	3.30	290
CF4H1812-562G	56	2.5	50	-	30	4.10	260
CF4H1812-682G	68	2.5	50	-	20	4.90	240
CF4H1812-822G	82	2.5	55	-	20	5.70	220
CF4H1812-103G	100	2.5	55	-	20	6.50	207
CF4H1812-123G	120	0.79	55	-	15	7.30	195
CF4H1812-153G	150	0.79	50	-	15	8.10	185
CF4H1812-183G	180	0.79	45	-	15	8.90	177
CF4H1812-223G	220	0.79	44	-	9	9.50	171
CF4H1812-273G	270	0.79	44	-	9	10	167
CF4H1812-333G	330	0.79	43	-	7	11	159
CF4H1812-393G	390	0.79	42	-	6	11	159
CF4H1812-473G	470	0.79	42	-	6	12	152
CF4H1812-563G	560	0.79	42	-	6	17	128
CF4H1812-683G	680	0.79	40	-	6	21	115
CF4H1812-823G	820	0.79	35	-	6	26	103
CF4H1812-104G	1000	0.79	35	-	6	30	96