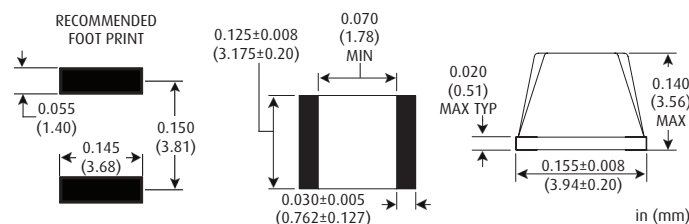


SMRF1512 SERIES



Unshielded Epoxy-Coated Chip Inductor

COTS Military Specifications:
M83446/10 (reference only)



PART NUMBER	COTS DASH NO.	L μ H	Q MIN	TEST FREQ MHz	SRF MHz MIN	DCR Ω MAX	CURRENT RATING mA DC
MIL-PRF-83446/10 POWDERED IRON CORE							
SMRF1512-010K	62	0.010	60	150	2000	0.04	1000
SMRF1512-012K	63	0.012	70	150	1800	0.04	1000
SMRF1512-015K	64	0.015	75	150	1500	0.04	1000
SMRF1512-018K	65	0.018	75	150	1500	0.04	1000
SMRF1512-022K	66	0.022	60	100	1300	0.05	1000
SMRF1512-027K	67	0.027	60	100	1300	0.05	1000
SMRF1512-033K	68	0.033	60	100	1000	0.05	1000
SMRF1512-039K	69	0.039	60	100	1000	0.06	900
SMRF1512-047K	70	0.047	65	100	800	0.06	900
SMRF1512-056K	71	0.056	65	100	760	0.06	900
SMRF1512-068K	72	0.068	65	100	700	0.07	840
SMRF1512-082K	73	0.082	65	100	650	0.07	840
SMRF1512-100K	74	0.100	65	50	570	0.07	840
SMRF1512-120K	75	0.120	65	50	520	0.07	840
SMRF1512-150K	76	0.150	75	50	400	0.08	790
SMRF1512-180K	77	0.180	75	50	360	0.08	790
SMRF1512-220K	78	0.220	70	50	320	0.08	790
SMRF1512-270K	79	0.270	70	50	270	0.10	700
SMRF1512-330K	80	0.330	70	50	240	0.10	700
SMRF1512-390K	81	0.390	70	50	220	0.10	700
SMRF1512-470K	82	0.470	70	25	190	0.14	590
SMRF1512-560K	83	0.560	70	25	170	0.19	510
SMRF1512-680K	84	0.680	70	25	160	0.26	430
SMRF1512-820K	85	0.820	75	25	150	0.30	400
SMRF1512-101K	86	1.0	75	25	130	0.34	380
SMRF1512-121K	87	1.2	65	7.9	120	0.45	330
SMRF1512-151K	88	1.5	65	7.9	110	0.57	290
SMRF1512-181K	89	1.8	65	7.9	100	0.72	260
SMRF1512-221K	90	2.2	65	7.9	80	0.90	230
SMRF1512-271K	91	2.7	65	7.9	60	1.10	210
SMRF1512-331K	92	3.3	60	7.9	50	1.20	200
SMRF1512-391K	93	3.9	60	7.9	45	1.40	180
SMRF1512-471K	94	4.7	60	7.9	42	1.60	170
SMRF1512-561K	95	5.6	65	7.9	40	1.80	160
SMRF1512-681K	96	6.8	65	7.9	37	2.40	140
SMRF1512-821K	97	8.2	65	7.9	34	3.00	130
SMRF1512-102K	98	10	65	7.9	29	3.50	120
SMRF1512-122K	99	12	60	2.5	27	3.60	118
SMRF1512-152K	100	15	60	2.5	22	3.70	115
SMRF1512-182K	101	18	60	2.5	17	3.80	114
SMRF1512-222K	102	22	60	2.5	16	3.90	113
SMRF1512-272K	103	27	65	2.5	15	4.00	110
SMRF1512-332K	104	33	65	2.5	14	5.00	100
SMRF1512-392K	105	39	65	2.5	13	7.00	84
SMRF1512-472K	106	47	70	2.5	12	8.00	79
SMRF1512-562K	107	56	70	2.5	11	10	70
SMRF1512-682K	108	68	65	2.5	10	11	67
SMRF1512-822K	109	82	60	2.5	9.0	12	64
SMRF1512-103K	110	100	60	2.5	8.0	13	62
SMRF1512-123K	111	120	40	0.79	7.0	14	59
SMRF1512-153K	112	150	40	0.79	6.0	16	56
SMRF1512-183K	113	180	40	0.79	5.0	18	52
SMRF1512-223K	114	220	40	0.79	4.0	24	45
SMRF1512-273K	115	270	40	0.79	3.3	25	44
SMRF1512-333K	116	330	40	0.79	3.1	29	41
SMRF1512-393K	117	390	40	0.79	2.9	32	39
SMRF1512-473K	118	470	35	0.79	2.4	35	37
SMRF1512-563K	119	560	35	0.79	2.1	45	33
SMRF1512-683K	120	680	35	0.79	1.9	55	30
SMRF1512-823K	121	820	30	0.79	1.8	70	26
SMRF1512-104K	122	1000	30	0.79	1.7	80	25

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
- **DWV** 500 Vrms @ Sea Level
200 Vrms @ 70,000 Feet
- **Weight Max:** 0.12 grams
- Epoxy-encapsulated for environmental protection and superior strength to withstand all types of reflow soldering
- Custom designs are available to meet your specific requirements; please contact factory

PART NUMBER DERIVATION

GEC Series **SMRF1512 - 100 K S**

Inductance: 2 signif. digits & mult.
ex: 010 = 0.010 μ H, 100 = 0.10 μ H, 101 = 1.0 μ H, 102 = 10 μ H

Tolerance: M = 20%, K = 10%
(Table shows available tolerance options)
* Optional tolerances are available; contact factory

Termination: No Suffix = Non-soldered, Gold (Au) (Standard)
S = Soldered (2 versions available: Pb = Tin/Lead or RoHS = Tin/Copper)

TAPE AND REEL SPECS

Pieces/reel maximum: 500
Pitch between parts: 8 mm
Tape width: 16 mm
Reel diameter: 7 in.

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