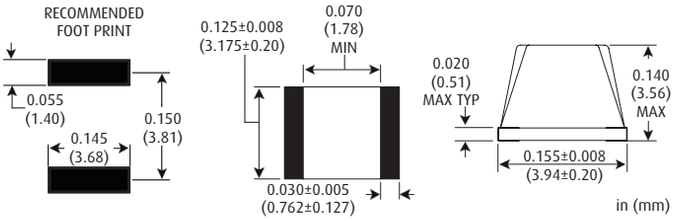
SMRF1512S SERIES

Pb TRADITIONAL | RoHS COMPLIANT

Shielded Epoxy-Coated Chip Inductor

COTS Military Specifications:
M83446/11 (reference only)



PART NUMBER	COTS DASH NO.	L µH	Q MIN	TEST FREQ MHz	SRF MHz MIN	DCR Ω MAX	CURRENT RATING mA DC
MIL-PRF-83446/11 POWDERED IRON CORE							
SMRF1512S-100K	62	0.10	79	25	600	0.030	1000
SMRF1512S-120K	63	0.12	79	25	520	0.030	1000
SMRF1512S-150K	64	0.15	79	25	490	0.030	1000
SMRF1512S-180K	65	0.18	79	25	460	0.040	1000
SMRF1512S-220K	66	0.22	79	25	430	0.040	1000
SMRF1512S-270K	67	0.27	88	25	370	0.040	1000
SMRF1512S-330K	68	0.33	93	25	310	0.050	750
SMRF1512S-390K	69	0.39	102	25	280	0.050	750
SMRF1512S-470K	70	0.47	106	25	260	0.050	750
SMRF1512S-560K	71	0.56	106	25	240	0.060	700
SMRF1512S-680K	72	0.68	106	25	200	0.060	700
SMRF1512S-820K	73	0.82	106	25	185	0.060	700
SMRF1512S-101K	74	1.0	106	25	175	0.090	650
SMRF1512S-121K	75	1.2	90	7.9	150	0.090	650
SMRF1512S-151K	76	1.5	100	7.9	135	0.140	600
SMRF1512S-181K	77	1.8	100	7.9	120	0.200	500
SMRF1512S-221K	78	2.2	100	7.9	105	0.300	400
SMRF1512S-271K	79	2.7	100	7.9	85	0.400	350
SMRF1512S-331K	80	3.3	100	7.9	80	0.460	330
SMRF1512S-391K	81	3.9	105	7.9	64	0.520	310
SMRF1512S-471K	82	4.7	115	7.9	56	0.540	300
SMRF1512S-561K	83	5.6	115	7.9	49	0.600	285
SMRF1512S-681K	84	6.8	115	7.9	45	0.660	270
SMRF1512S-821K	85	8.2	115	7.9	41	1.0	225
SMRF1512S-102K	86	10	100	7.9	39	1.2	200
SMRF1512S-122K	87	12	100	2.5	34	1.5	180
SMRF1512S-152K	88	15	100	2.5	30	1.8	170
SMRF1512S-182K	89	18	100	2.5	26	1.9	160
SMRF1512S-222K	90	22	105	2.5	23	.1	150
SMRF1512S-272K	91	27	110	2.5	20	2.4	140
SMRF1512S-332K	92	33	120	2.5	18	2.7	130
SMRF1512S-392K	93	39	120	2.5	17	3.1	125
SMRF1512S-472K	94	47	120	2.5	16	3.2	125
SMRF1512S-562K	95	56	110	2.5	14	3.5	120
SMRF1512S-682K	96	68	110	2.5	12	4.0	111
SMRF1512S-822K	97	82	110	2.5	10	4.8	102
SMRF1512S-103K	98	100	110	2.5	9.4	5.7	93
SMRF1512S-123K	99	120	85	0.79	8.0	6.2	89
SMRF1512S-153K	100	150	85	0.79	8.0	6.3	89
SMRF1512S-183K	101	180	85	0.79	6.9	6.4	88
SMRF1512S-223K	102	220	85	0.79	6.1	7.4	82
SMRF1512S-273K	103	270	85	0.79	5.2	8.1	78
SMRF1512S-333K	104	330	100	0.79	4.6	8.8	75
SMRF1512S-393K	105	390	100	0.79	4.0	9.7	72
SMRF1512S-473K	106	470	100	0.79	3.6	10	69
SMRF1512S-563K	107	560	100	0.79	2.8	11	66
SMRF1512S-683K	108	680	100	0.79	2.3	12	64
SMRF1512S-823K	109	820	95	0.79	2.1	17	53
SMRF1512S-104K	110	1000	95	0.79	2.0	22	47
SMRF1512S-124K	111	1200	75	0.25	1.7	24	45
SMRF1512S-154K	112	1500	75	0.25	1.6	25	44
SMRF1512S-184K	113	1800	75	0.25	1.5	27	43
SMRF1512S-224K	114	2200	75	0.25	1.4	30	40
SMRF1512S-274K	115	2700	75	0.25	1.3	34	38
SMRF1512S-334K	116	3300	75	0.25	1.2	39	35
SMRF1512S-394K	117	3900	75	0.25	1.1	56	29
SMRF1512S-474K	118	4700	75	0.25	1.0	70	26
SMRF1512S-564K	119	5600	75	0.25	0.90	80	25
SMRF1512S-684K	120	6800	75	0.25	0.80	90	23
SMRF1512S-824K	121	8200	75	0.25	0.70	100	22
SMRF1512S-105K	122	10000	75	0.25	0.70	110	21

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

SMRF1512S - 100 K S

GEC Series
Inductance: 2 signif. digits & mult.
ex: 100 = 0.10µH, 101 = 1.0µH, 102 = 10µH, 102 = 100µH
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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Made in the U.S.A.

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