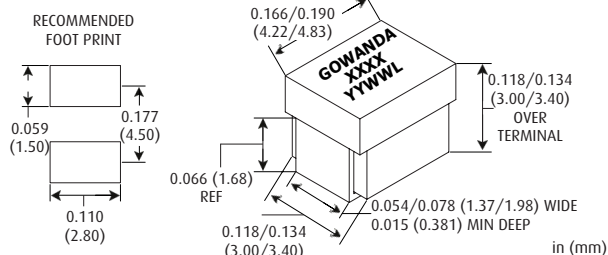


MLRF1812 SERIES



MIL-PRF-83446 Qualified Molded Unshielded Inductor

Military Specifications:
M83446/39



PART NUMBER	MIL DASH NO.	L μ H	Q MIN	TEST FREQ MHz	SRF MHz MIN ¹	DCR Ω MAX	CURRENT RATING mA DC
MIL-PRF-83446/39 PHENOLIC CORE							
MLRF1812-010M	01F	0.010	40	50	1000	0.10	1230
MLRF1812-012M	02F	0.012	40	50	1000	0.10	1230
MLRF1812-015M	03F	0.015	40	50	1000	0.10	1230
MLRF1812-018M	04F	0.018	40	50	1000	0.10	1230
MLRF1812-022M	05F	0.022	40	50	1000	0.10	1230
MLRF1812-027M	06F	0.027	40	50	1000	0.15	1000
MLRF1812-033M	07F	0.033	40	50	1000	0.15	1000
MLRF1812-039M	08F	0.039	30	50	1000	0.20	870
MLRF1812-047M	09F	0.047	30	50	1000	0.20	870
MLRF1812-056M	10F	0.056	30	50	850	0.25	770
MLRF1812-068M	11F	0.068	25	50	750	0.25	770
MLRF1812-082M	12F	0.082	25	50	750	0.25	700
MIL-PRF-83446/39 POWDERED IRON CORE							
MLRF1812-100K	13F	0.100	30	25	650	0.30	818
MLRF1812-120K	14F	0.120	30	25	600	0.30	818
MLRF1812-150K	15F	0.150	30	25	500	0.30	818
MLRF1812-180K	16F	0.180	30	25	400	0.35	757
MLRF1812-220K	17F	0.220	30	25	350	0.40	708
MLRF1812-270K	18F	0.270	30	25	300	0.45	668
MLRF1812-330K	19F	0.330	30	25	250	0.55	604
MLRF1812-390K	20F	0.390	30	25	220	0.70	535
MLRF1812-470K	21F	0.470	30	25	190	0.80	501
MLRF1812-560K	22F	0.560	30	25	170	1.20	409
MLRF1812-680K	23F	0.680	30	25	150	1.40	379
MLRF1812-820K	24F	0.820	30	25	140	1.60	354
MIL-PRF-83446/39 FERRITE CORE							
MLRF1812-101J	25F	1.0	50	7.9	100	0.50	634
MLRF1812-121J	26F	1.2	50	7.9	80	0.55	604
MLRF1812-151J	27F	1.5	50	7.9	70	0.60	578
MLRF1812-181J	28F	1.8	50	7.9	60	0.65	556
MLRF1812-221J	29F	2.2	50	7.9	55	0.70	535
MLRF1812-271J	30F	2.7	50	7.9	50	0.75	517
MLRF1812-331J	31F	3.3	50	7.9	45	0.80	501
MLRF1812-391J	32F	3.9	50	7.9	40	0.90	472
MLRF1812-471J	33F	4.7	50	7.9	35	1.0	448
MLRF1812-561J	34F	5.6	50	7.9	33	1.1	427
MLRF1812-681J	35F	6.8	50	7.9	27	1.2	409
MLRF1812-821J	36F	8.2	50	7.9	25	1.4	375
MLRF1812-102J	37F	10	50	7.9	20	1.6	354
MLRF1812-122J	38F	12	50	2.5	18	2.0	317
MLRF1812-152J	39F	15	50	2.5	17	2.5	283
MLRF1812-182J	40F	18	50	2.5	15	2.8	268
MLRF1812-222J	41F	22	50	2.5	13	3.2	250
MLRF1812-272J	42F	27	50	2.5	12	3.6	236
MLRF1812-332J	43F	33	50	2.5	11	4.0	224
MLRF1812-392J	44F	39	50	2.5	11	4.5	211
MLRF1812-472J	45F	47	50	2.5	10	5.0	200
MLRF1812-562J	46F	56	50	2.5	9.0	5.5	191
MLRF1812-682J	47F	68	50	2.5	9.0	6.0	183
MLRF1812-822J	48F	82	50	2.5	8.0	7.0	169
MLRF1812-103J	49F	100	40	2.5	8.0	8.0	158
MLRF1812-123J	50F	120	40	0.79	6.0	8.0	158
MLRF1812-153J	51F	150	40	0.79	5.0	9.0	149
MLRF1812-183J	52F	180	40	0.79	5.0	9.5	145
MLRF1812-223J	53F	220	40	0.79	4.0	10	142
MLRF1812-273J	54F	270	40	0.79	4.0	12	129
MLRF1812-333J	55F	330	40	0.79	3.5	14	120
MLRF1812-393J	56F	390	40	0.79	3.0	20	100
MLRF1812-473J	57F	470	40	0.79	3.0	26	88
MLRF1812-563J	58F	560	30	0.79	3.0	30	82
MLRF1812-683J	59F	680	30	0.79	3.0	30	82
MLRF1812-823J	60F	820	30	0.79	2.5	45	67
MLRF1812-104J	61F	1000	30	0.79	2.5	60	55

¹ SRF values above 250 MHz are calculated and are for reference only

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 200 Vrms @ Sea Level
80 Vrms @ 70,000 Feet
- Maximum Power Dissipation at 90°C Ambient:
210 mW for Phenolic
278 mW for Powdered Iron & Ferrite
- Weight Max: 0.301 grams
- Marking: GOWANDA; XXXX (dash number); YYWWL (see diagram above)
- Materials are fungus-inert to meet method 508 of MIL-STD-810H

PART NUMBER DERIVATION

GEC Series **MLRF1812 - 010 M**
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%, J = 5%
 (Table shows lowest standard tolerance option)
Termination: No Suffix = SnPb (standard)
EXAMPLE OF ORDERING BY MILITARY PART NUMBER:
 MLRF1812-010M $\rightarrow$ M83446/39-01F

TAPE AND REEL SPECS

Pieces/reel maximum:	2200
Pitch between parts:	8 mm
Tape width:	12 mm
Reel diameter:	13 in.