

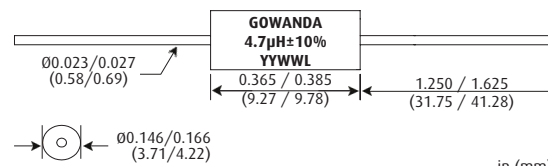
MLRF15M SERIES



MIL-PRF-15305 Qualified Molded Unshielded RF Coil

Military Specifications:

MS18130, MS14046, MS90538



PART NUMBER	MIL DASH NO.	L μ H	Q MIN	TEST FREQ MHz	SRF MHz MIN	DCR Ω MAX	CURRENT RATING mA DC
MS18130 PHENOLIC CORE							
MLRF15M150M	1	0.15	50	25	525	0.030	2450
MLRF15M220M	2	0.22	50	25	450	0.055	1810
MLRF15M330M	3	0.33	45	25	360	0.090	1400
MLRF15M470M	4	0.47	45	25	310	0.120	1225
MLRF15M560K	5	0.56	50	25	280	0.135	1150
MLRF15M680K	6	0.68	50	25	250	0.150	1100
MLRF15M820K	7	0.82	50	25	220	0.220	900
MLRF15M101K	8	1.0	50	25	200	0.290	785
MLRF15M121K	9	1.2	33	7.9	180	0.420	650
MLRF15M151K	10	1.5	33	7.9	160	0.500	600
MLRF15M181K	11	1.8	33	7.9	150	0.650	525
MLRF15M221K	12	2.2	33	7.9	135	0.950	435
MLRF15M271K	13	2.7	33	7.9	120	1.20	385
MLRF15M331K	14	3.3	33	7.9	110	2.00	300
MLRF15M391K	15	3.9	33	7.9	100	2.30	280
MLRF15M471K	16	4.7	33	7.9	90	2.60	260
MS14046 POWDERED IRON CORE							
MLRF15M561K	1	5.6	45	7.9	60	0.320	495
MLRF15M681K	2	6.8	50	7.9	55	0.500	395
MLRF15M821K	3	8.2	50	7.9	50	0.600	360
MLRF15M102K	4	10	55	7.9	45	0.900	290
MLRF15M122K	5	12	65	2.5	42	1.10	265
MLRF15M152K	6	15	65	2.5	40	1.40	240
MLRF15M182K	7	18	75	2.5	34	2.25	185
MLRF15M222K	8	22	75	2.5	30	2.50	175
MLRF15M272K	9	27	60	2.5	25	2.60	170
MLRF15M332K	10	33	65	2.5	19	3.00	165
MS90538 POWDERED IRON CORE							
MLRF15M362J	01	36	60	2.5	15.5	2.50	180
MLRF15M392J	02	39	60	2.5	14.5	2.60	176
MLRF15M432J	03	43	60	2.5	13.7	2.70	172
MLRF15M472J	04	47	55	2.5	13.0	2.75	170
MLRF15M512J	05	51	55	2.5	12.7	2.85	167
MLRF15M562J	06	56	55	2.5	12.0	3.00	164
MLRF15M622J	07	62	55	2.5	11.5	3.15	160
MLRF15M682J	08	68	55	2.5	11.0	3.30	156
MLRF15M752J	09	75	55	2.5	10.5	3.70	147
MLRF15M822J	10	82	50	2.5	10.3	3.90	143
MLRF15M912J	11	91	50	2.5	10.0	4.30	136
MLRF15M103J	12	100	50	2.5	9.5	4.50	133
MLRF15M113J	13	110	60	0.79	8.9	4.90	128
MLRF15M123J	14	120	65	0.79	8.7	5.20	124
MLRF15M133J	15	130	65	0.79	8.5	4.45	121
MLRF15M153J	16	150	65	0.79	8.0	6.05	114
MLRF15M163J	17	160	65	0.79	7.5	6.40	111
MLRF15M183J	18	180	65	0.79	7.0	6.75	108
MLRF15M203J	19	200	65	0.79	6.5	7.10	106
MLRF15M223J	20	220	65	0.79	6.2	7.45	103
MLRF15M243J	21	240	65	0.79	5.9	7.80	101

NOTES

- Operating Temperature Range:**
-55°C to +125°C for MS18130
-55°C to +105°C for MS14046 & MS90538
- Temperature Class:**
Class B: 125°C for MS18130
Class A: 105°C for MS14046 & MS90538
- Current Rating** at a 90°C Ambient:
35°C Rise for MS18130
15°C Rise for MS14046 & MS90538
- DWV** 1000 Vrms @ Sea Level for MS18130 & MS14046
700 Vrms @ Sea Level for MS90538
200 Vrms @ 70,000 Feet for MS18130 & MS14046
180 Vrms @ 70,000 Feet for MS90538
- Weight Max:** 0.70 grams (MS18130), 0.90 grams (MS14046 & MS90538)
- Marking:** Inductance with units and tolerance; YYWWL (see diagram above)
- Body Color:** Black
- Materials are fungus-inert to meet method 508 of MIL-STD-810H

PART NUMBER DERIVATION

GEC Series **MLRF15M 150 M**
Inductance: 2 signif. digits & mult.
 ex: 150 = 0.15 μ H, 101 = 1.0 μ H, 102 = 10 μ H, 103 = 100 μ H
Tolerance: M = 20%, K = 10%, J = 5%
 (Table shows lowest standard tolerance option)
Termination: SnPb (standard)
EXAMPLE OF ORDERING BY MILITARY PART NUMBER:
 MLRF15M150M $\rightarrow$ MS18130-1

TAPE AND REEL SPECS:

Pieces/reel maximum: 2500
 Pitch between parts: 0.200 in.
 Tape width: 2.062 in.
 Reel diameter: 12 in.
 Class: 1