

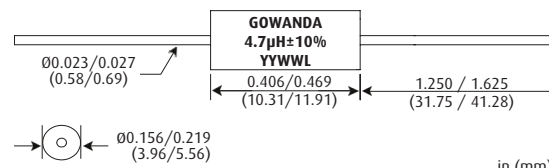
MLRF18M SERIES



MIL-PRF-15305 Qualified Molded Unshielded RF Coil

Military Specifications:

MS75008, MS75101



PART NUMBER	MIL DASH NO.	L μH	Q MIN	TEST FREQ MHz	SRF MHz MIN	DCR Ω MAX	CURRENT RATING mA DC
MS75008 PHENOLIC CORE							
MLRF18M150M	21	0.15	55	25	510	0.030	3000
MLRF18M220M	22	0.22	50	25	415	0.035	2800
MLRF18M330M	23	0.33	50	25	350	0.065	2000
MLRF18M470M	24	0.47	50	25	300	0.085	1700
MLRF18M560K	25	0.56	50	25	270	0.125	1450
MLRF18M680K	26	0.68	45	25	250	0.150	1300
MLRF18M820K	27	0.82	40	25	210	0.205	1100
MLRF18M101K	28	1.0	40	25	200	0.290	930
MLRF18M121K	29	1.2	30	7.9	180	0.400	785
MLRF18M151K	30	1.5	30	7.9	170	0.485	700
MLRF18M181K	31	1.8	30	7.9	150	0.740	580
MLRF18M221K	32	2.2	30	7.9	140	0.970	505
MLRF18M271K	33	2.7	30	7.9	120	1.20	460
MS75101 POWDERED IRON CORE							
MLRF18M331K	1	3.3	30	7.9	70	0.140	990
MLRF18M391K	2	3.9	30	7.9	65	0.155	870
MLRF18M471K	3	4.7	30	7.9	60	0.210	745
MLRF18M561K	4	5.6	30	7.9	50	0.280	645
MLRF18M681K	5	6.8	30	7.9	50	0.375	560
MLRF18M821K	6	8.2	30	7.9	48	0.440	540
MLRF18M102K	7	10	30	7.9	42	0.605	440
MLRF18M122K	8	12	50	2.5	36	1.05	370
MLRF18M152K	9	15	55	2.5	30	1.20	310
MLRF18M182K	10	18	60	2.5	30	1.95	255
MLRF18M222K	11	22	60	2.5	24	2.20	240
MLRF18M272K	12	27	65	2.5	22	2.75	205

NOTES

- **Operating Temperature Range:**
-55°C to +125°C for MS75008
-55°C to +105°C for MS75101
- **Temperature Class:**
Class B: 125°C for MS75008
Class A: 105°C for MS75101
- **Current Rating** at a 90°C Ambient:
35°C Rise for MS75008
15°C Rise for MS75101
- **DWV** 1000 Vrms @ Sea Level
200 Vrms @ Sea Level
- **Weight Max:** 0.95 grams
- **Marking:** Inductance with units and tolerance; YYWWL (see diagram above)
- **Body Color:** Black
- SRF values are calculated and for reference only
- Materials are fungus-inert to meet method 508 of MIL-STD-810H

PART NUMBER DERIVATION

GEC Series **MLRF18M 150 M**

Inductance: 2 signif. digits & mult.
ex: 150 = 0.15μH, 101 = 1.0μH, 102 = 10μH

Tolerance: M = 20%, K = 10%
(Table shows lowest standard tolerance option)

Termination: SnPb (standard)

EXAMPLE OF ORDERING BY MILITARY PART NUMBER:
MLRF18M150M → MS75008-21

TAPE AND REEL SPECS:

Pieces/reel maximum: 2000

Pitch between parts: 0.200 in.

Tape width: 0.062 in.

Reel diameter: 12 in.

Class: 1