

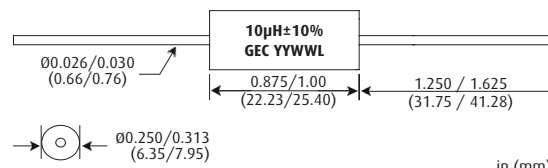
MLRF28M SERIES



MIL-PRF-15305 Qualified Molded Unshielded RF Coil

Military Specifications:

MS91189, MS75103



in (mm)

PART NUMBER	MIL DASH NO.	L µH	Q MIN	L&Q TEST FREQ MHz	SRF MHz MIN	DCR Ω MAX	CURRENT RATING mA DC
MS91189 PHENOLIC CORE							
MLRF28M121K	14	1.2	60	7.9	170	0.075	2400
MLRF28M151K	15	1.5	60	7.9	160	0.090	2150
MLRF28M181K	16	1.8	60	7.9	140	0.135	1750
MLRF28M221K	17	2.2	60	7.9	125	0.160	1600
MLRF28M271K	18	2.7	60	7.9	115	0.220	1350
MLRF28M331K	19	3.3	60	7.9	100	0.305	1150
MLRF28M391K	20	3.9	60	7.9	95	0.450	955
MLRF28M471K	21	4.7	60	7.9	90	0.560	860
MLRF28M561K	22	5.6	60	7.9	80	0.745	745
MLRF28M681K	23	6.8	60	7.9	75	1.05	635
MLRF28M821K	24	8.2	60	7.9	68	1.40	550
MLRF28M102K	25	10	60	7.9	60	1.90	460
MLRF28M122K	26	12	40	2.5	53	2.65	395
MLRF28M152K	27	15	40	2.5	50	3.25	355
MLRF28M182K	28	18	40	2.5	45	4.15	315
MS75103 POWDERED IRON CORE							
MLRF28M222K	1	22	50	2.5	24	0.295	725
MLRF28M272K	2	27	45	2.5	22	0.350	660
MLRF28M332K	3	33	60	2.5	19	0.550	525
MLRF28M392K	4	39	55	2.5	18	0.650	485
MLRF28M472K	5	47	65	2.5	16	1.00	390
MLRF28M562K	6	56	65	2.5	14	1.15	360
MLRF28M682K	7	68	75	2.5	13	1.85	285
MLRF28M822K	8	82	75	2.5	12	2.10	265
MLRF28M103K	9	100	75	2.5	12	2.50	245
MLRF28M123K	10	120	95	0.79	10	4.10	195

NOTES

- Operating Temperature Range:**
-55°C to +125°C for MS91189
-55°C to +105°C for MS75103
- Temperature Class:**
Class B: 125°C for MS91189
Class A: 105°C for MS75103
- Current Rating** at a 90°C Ambient:
35°C Rise for MS91189
15°C Rise for MS75103
- DWV** 1000 Vrms @ Sea Level
200 Vrms @ 70,000 Feet
- Weight Max:** 3.90 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

MLRF28M 121 K

GEC Series ——— Inductance: 2 signif. digits & mult. ———
ex: 121 = 1.2µH, 102 = 10µH, 103 = 100µH
Tolerance: K = 10% ———
(Table shows lowest standard tolerance option)
Termination: SnPb (standard)

EXAMPLE OF ORDERING BY MILITARY PART NUMBER:
MLRF28M121K → MS91189-14

TAPE AND REEL SPECS:

Pieces/reel maximum: 1000
Pitch between parts: 0.420 in.
Tape width: 2.500 in.
Reel diameter: 12 in.
Class: 2