

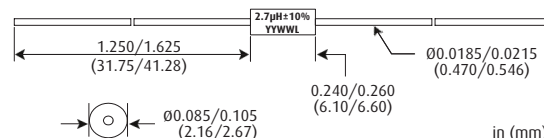
MLRF10M SERIES



MIL-PRF-15305 Qualified Molded Unshielded RF Coil

Military Specifications:

MS75083, MS75084, MS75085



PART NUMBER	MIL DASH NO.	L µH	Q MIN	TEST FREQ MHz	SRF MHz MIN ¹	DCR Ω MAX	CURRENT RATING mA DC
MS75083 PHENOLIC CORE							
MLRF10M100K	1	0.10	40	25	680	0.080	1350
MLRF10M120K	2	0.12	40	25	640	0.090	1270
MLRF10M150K	3	0.15	38	25	600	0.100	1200
MLRF10M180K	4	0.18	35	25	550	0.120	1105
MLRF10M220K	5	0.22	33	25	510	0.140	1025
MLRF10M270K	6	0.27	33	25	430	0.160	960
MLRF10M330K	7	0.33	30	25	410	0.220	815
MLRF10M390K	8	0.39	30	25	365	0.300	700
MLRF10M470K	9	0.47	30	25	330	0.350	650
MLRF10M560K	10	0.56	30	25	300	0.500	545
MLRF10M680K	11	0.68	28	25	275	0.600	495
MLRF10M820K	12	0.82	28	25	250	0.850	415
MLRF10M101K	13	1.0	25	25	230	1.0	385
MS75084 POWDERED IRON CORE							
MLRF10M121K	1	1.2	25	7.9	150	0.180	590
MLRF10M151K	2	1.5	28	7.9	140	0.220	535
MLRF10M181K	3	1.8	30	7.9	125	0.300	455
MLRF10M221K	4	2.2	30	7.9	115	0.400	395
MLRF10M271K	5	2.7	37	7.9	100	0.550	355
MLRF10M331K	6	3.3	45	7.9	90	0.850	270
MLRF10M391K	7	3.9	45	7.9	80	1.0	250
MLRF10M471K	8	4.7	45	7.9	75	1.2	230
MLRF10M561K	9	5.6	50	7.9	65	1.8	185
MLRF10M681K	10	6.8	50	7.9	60	2.0	175
MLRF10M821K	11	8.2	55	7.9	55	2.7	155
MLRF10M102K	12	10	55	7.9	50	3.7	130
MLRF10M122K	13	12	45	2.5	40	2.7	155
MLRF10M152K	14	15	40	2.5	35	2.8	150
MLRF10M182K	15	18	50	2.5	30	3.1	145
MLRF10M222K	16	22	50	2.5	25	3.3	140
MLRF10M272K	17	27	50	2.5	20	3.5	135
MS75085 FERRITE CORE							
MLRF10M332K	1	33	45	2.5	24	3.4	130
MLRF10M392K	2	39	45	2.5	22	3.6	125
MLRF10M472K	3	47	45	2.5	20	4.5	110
MLRF10M562K	4	56	45	2.5	18	5.7	100
MLRF10M682K	5	68	50	2.5	15	6.7	92
MLRF10M822K	6	82	50	2.5	14	7.3	88
MLRF10M103K	7	100	50	2.5	13	8.0	84
MLRF10M123K	8	120	30	0.79	12	13	66
MLRF10M153K	9	150	30	0.79	11	15	61
MLRF10M183K	10	180	30	0.79	10	17	57
MLRF10M223K	11	220	30	0.79	9.0	21	52
MLRF10M273K	12	270	30	0.79	8.0	25	47
MLRF10M333K	13	330	30	0.79	7.0	28	45
MLRF10M393K	14	390	30	0.79	6.5	35	40
MLRF10M473K	15	470	30	0.79	6.0	42	36
MLRF10M563K	16	560	30	0.79	5.0	46	35
MLRF10M683K	17	680	30	0.79	4.0	60	30
MLRF10M823K	18	820	30	0.79	3.8	65	29
MLRF10M104K	19	1000	30	0.79	3.4	72	28

¹ SRF values are calculated and are for reference only

NOTES

- Operating Temperature Range:**
-55°C to +125°C for MS75083
-55°C to +105°C for MS75084 & MS75085
- Temperature Class:**
Class B: 125°C for MS75083
Class A: 105°C for MS75084 & MS75085
- Current Rating** at a 90°C Ambient:
35°C Rise for MS75083
15°C Rise for MS75084 & MS75085
- DWV** 1000 Vrms @ Sea Level
300 Vrms @ 70,000 Feet for MS75083 & MS75084
200 Vrms @ 70,000 Feet for MS75085
- Weight Max:** 0.301 grams
- 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 **MLRF10M 100 K**
Inductance: 2 signif. digits & mult.
 ex: 100 = 0.10µH, 101 = 1.0µH, 102 = 10µH
Tolerance: K = 10%
 (Table shows lowest standard tolerance option)
Termination: SnPb (standard)
EXAMPLE OF ORDERING BY MILITARY PART NUMBER:
 MLRF10M100K → MS75083-1

TAPE AND REEL SPECS:

Pieces/reel maximum: 3500
 Pitch between parts: 0.200 in.
 Tape width: 2.062 in.
 Reel diameter: 12 in.
 Class: 1