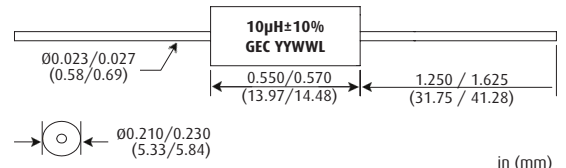
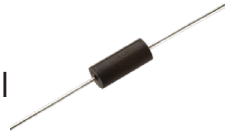


MLRF21M SERIES



MIL-PRF-15305 Qualified Molded Unshielded RF Coil

Military Specifications:
MS90542, MS14052

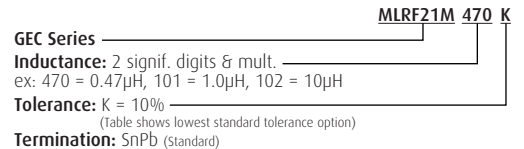


PART NUMBER	MIL DASH NO.	L µH	Q MIN	L&Q TEST FREQ MHz	SRF MHz MIN	DCR Ω MAX	CURRENT RATING mA DC
MS90542 PHENOLIC CORE							
MLRF21M470K	01	0.47	65	25	300	0.06	1970
MLRF21M560K	02	0.56	65	25	270	0.07	1850
MLRF21M680K	03	0.68	65	25	240	0.08	1700
MLRF21M820K	04	0.82	65	25	220	0.11	1450
MLRF21M101K	05	1.0	65	25	200	0.14	1290
MLRF21M121K	06	1.2	40	7.9	180	0.19	1120
MLRF21M151K	07	1.5	40	7.9	160	0.28	925
MLRF21M181K	08	1.8	40	7.9	150	0.37	700
MLRF21M221K	09	2.2	40	7.9	135	0.50	680
MLRF21M271K	10	2.7	40	7.9	120	0.65	600
MLRF21M331K	11	3.3	40	7.9	105	1.0	480
MLRF21M391K	12	3.9	40	7.9	100	1.2	440
MLRF21M471K	13	4.7	40	7.9	90	1.8	360
MS14052 POWDERED IRON CORE							
MLRF21M561K	1	5.6	35	7.9	55	0.13	885
MLRF21M681K	2	6.8	35	7.9	50	0.20	710
MLRF21M821K	3	8.2	35	7.9	44	0.22	680
MLRF21M102K	4	10	35	7.9	42	0.26	625
MLRF21M122K	5	12	45	2.5	34	0.45	465
MLRF21M152K	6	15	45	2.5	32	0.52	442
MLRF21M182K	7	18	50	2.5	28	0.70	380
MLRF21M222K	8	22	60	2.5	24	1.0	326
MLRF21M272K	9	27	60	2.5	22	1.3	275
MLRF21M332K	10	33	60	2.5	20	1.5	258
MLRF21M392K	11	39	70	2.5	18	2.0	224

NOTES

- **Operating Temperature Range:**
-55°C to +125°C for MS90542
-55°C to +105°C for MS14052
- **Temperature Class:**
Class B: 125°C for MS90542
Class A: 105°C for MS14052
- **Current Rating** at a 90°C Ambient:
35°C Rise for MS90542
15°C Rise for MS14052
- **DWV** 1000 Vrms @ Sea Level
200 Vrms @ 70,000 Feet
- **Weight Max:** 1.50 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



EXAMPLE OF ORDERING BY MILITARY PART NUMBER:
MLRF21M470K → MS90542-01

TAPE AND REEL SPECS:

Pieces/reel maximum:	1000
Pitch between parts:	0.400 in.
Tape width:	2.500 in.
Reel diameter:	12 in.
Class:	2