

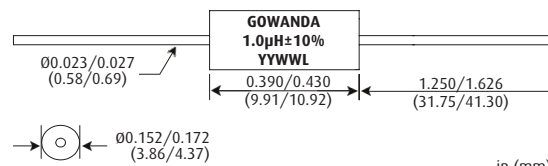
MLRF17S SERIES



MIL-PRF-15305 Qualified Molded Shielded RF Coil

Military Specifications:

MS75087, MS75088, MS75089



PART NUMBER	MIL DASH NO.	L μ H	Q MIN	TEST FREQ MHz	SRF MHz MIN	DCR Ω MAX	CURRENT RATING mA DC	INC I mA DC
MS75087 PHENOLIC CORE / POWDERED IRON SLEEVE								
MLRF17S100K	1	0.10	50	25	250	0.025	1790	-
MLRF17S120K	2	0.12	51	25	250	0.034	1530	-
MLRF17S150K	3	0.15	51	25	250	0.037	1470	-
MLRF17S180K	4	0.18	50	25	250	0.047	1300	-
MLRF17S220K	5	0.22	49	25	250	0.067	1100	-
MLRF17S270K	6	0.27	47	25	250	0.110	855	-
MLRF17S330K	7	0.33	46	25	250	0.130	780	-
MLRF17S390K	8	0.39	44	25	250	0.180	670	-
MLRF17S470K	9	0.47	44	25	235	0.250	565	-
MLRF17S560K	10	0.56	43	25	210	0.330	490	-
MLRF17S680K	11	0.68	42	25	190	0.450	420	-
MLRF17S820K	12	0.82	40	25	180	0.590	370	-
MS75088 POWDERED IRON CORE / POWDERED IRON SLEEVE								
MLRF17S101K	1	1.0	44	25	140	0.070	1070	-
MLRF17S121K	2	1.2	44	7.9	130	0.100	895	-
MLRF17S151K	3	1.5	44	7.9	115	0.120	815	-
MLRF17S181K	4	1.8	44	7.9	105	0.140	775	-
MLRF17S221K	5	2.2	44	7.9	100	0.190	650	-
MLRF17S271K	6	2.7	44	7.9	92	0.280	535	-
MLRF17S331K	7	3.3	44	7.9	85	0.350	480	-
MLRF17S391K	8	3.9	44	7.9	75	0.400	450	-
MLRF17S471K	9	4.7	44	7.9	70	0.550	380	-
MLRF17S561K	10	5.6	44	7.9	65	0.720	335	-
MLRF17S681K	11	6.8	50	7.9	55	1.02	280	-
MLRF17S821K	12	8.2	50	7.9	50	1.32	250	-
MLRF17S102K	13	10	50	7.9	46	1.62	220	-
MLRF17S122K	14	12	55	2.5	44	2.00	200	-
MS75089 FERRITE CORE / FERRITE SLEEVE								
MLRF17S152K	01	15	45	2.5	49	0.800	315	250
MLRF17S182K	02	18	45	2.5	45	0.890	300	235
MLRF17S222K	03	22	45	2.5	41	0.960	290	220
MLRF17S272K	04	27	45	2.5	38	1.19	260	200
MLRF17S332K	05	33	45	2.5	34	1.37	240	190
MLRF17S392K	06	39	50	2.5	29	1.93	205	180
MLRF17S472K	07	47	50	2.5	27	2.11	195	175
MLRF17S562K	08	56	50	2.5	25	2.23	190	160
MLRF17S682K	09	68	50	2.5	21	2.70	170	150
MLRF17S822K	10	82	50	2.5	10.5	2.44	180	140
MLRF17S103K	11	100	50	2.5	10.0	3.12	160	120
MLRF17S123K	12	120	55	0.79	9.7	3.60	150	95
MLRF17S153K	13	150	55	0.79	8.5	4.10	140	90
MLRF17S183K	14	180	55	0.79	8.0	4.40	135	85
MLRF17S223K	15	220	55	0.79	7.5	5.00	125	80
MLRF17S273K	16	270	55	0.79	7.0	5.80	115	70
MLRF17S333K	17	330	55	0.79	6.5	6.40	110	65
MLRF17S393K	18	390	60	0.79	6.2	7.40	105	60
MLRF17S473K	19	470	60	0.79	5.7	9.50	92	58
MLRF17S563K	20	560	60	0.79	4.7	10.5	90	55
MLRF17S683K	21	680	60	0.79	4.5	11.8	80	50
MLRF17S823K	22	820	60	0.79	4.2	13.0	80	45
MLRF17S104K	23	1000	60	0.79	3.8	17.5	70	40

NOTES

- **Operating Temperature Range:**
-55°C to +105°C
- **Temperature Class:**
Class A: 105°C
- **Current Rating** is based on a 15°C temperature rise at an ambient temperature of 90°C
- **DWV** 1000 Vrms @ Sea Level
200 Vrms @ 70,000 Feet
- **Weight Max:**
3.90 grams for MS75087
1.00 grams for MS75088 & MS75089
- **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 **MLRF17S** **100** **K**
Inductance: 2 signif. digits & mult.
 ex: 100 = 0.10 μ H, 101 = 1.0 μ H, 102 = 10 μ H, 103 = 100 μ H
Tolerance: K = 10%
 (Table shows lowest standard tolerance option)
Termination: SnPb (standard)
EXAMPLE OF ORDERING BY MILITARY PART NUMBER:
 MLRF17S100K $\rightarrow$ MS75087-1

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