

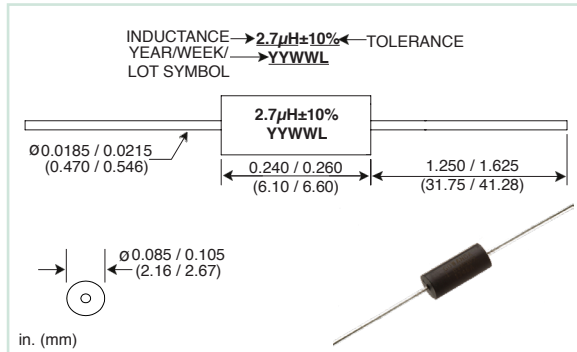
MLRF10M



M15305 Molded Unshielded Coil Inductor

Military Specifications:

MS75083, MS75084, MS75085



NOTES:

- **Operating Temperature Range:**
Phenolic: -55°C to +125°C
Iron & Ferrite: -55°C to +105°C
- **Temperature Class:**
Phenolic: Class B (125°C)
Iron & Ferrite: Class A (105°C)
- **Current Rating at a 90°C Ambient:**
Phenolic: 35°C Rise
Iron & Ferrite: 15°C Rise
- **DWV 1000 Vrms @ Sea Level**
Phenolic & Iron: 300 Vrms @ 70,000 Feet
Ferrite: 200 Vrms @ 70,000 Feet
- **Weight:** 0.301 grams
- **Marking:** Laser Mark (see diagram above)
- Body color is black
- SRF values are calculated and for reference only
- When ordering, specify **tolerance:**
MLRF10M100K
Tolerance: K = 10%
(Table shows lowest standard tolerance option)
- When ordering by military part number, specify **Military Spec, Dash No:**

MS75083-1

Example of ordering by Military Part Number:
MLRF10M100K → MS75083-1

TAPE AND REEL SPECS:

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

PART NUMBER	MIL DASH No.	L µH	Q MIN	TEST FREQ MHz	SRF MHz MIN	DCR Ω MAX	CURRENT RATING mA DC
MS75083 PHENOLIC CORE							
MLRF10M100K	1	0.10	40	25	680	0.08	1350
MLRF10M120K	2	0.12	40	25	640	0.09	1270
MLRF10M150K	3	0.15	38	25	600	0.10	1200
MLRF10M180K	4	0.18	35	25	550	0.12	1105
MLRF10M220K	5	0.22	33	25	510	0.14	1025
MLRF10M270K	6	0.27	33	25	430	0.16	960
MLRF10M330K	7	0.33	30	25	410	0.22	815
MLRF10M390K	8	0.39	30	25	365	0.30	700
MLRF10M470K	9	0.47	30	25	330	0.35	650
MLRF10M560K	10	0.56	30	25	300	0.50	545
MLRF10M680K	11	0.68	28	25	275	0.60	495
MLRF10M820K	12	0.82	28	25	250	0.85	415
MLRF10M101K	13	1.0	25	25	230	1.0	385
MS75084 POWDERED IRON CORE							
MLRF10M121K	1	1.2	25	7.9	150	0.18	590
MLRF10M151K	2	1.5	28	7.9	140	0.22	535
MLRF10M181K	3	1.8	30	7.9	125	0.30	455
MLRF10M221K	4	2.2	30	7.9	115	0.40	395
MLRF10M271K	5	2.7	37	7.9	100	0.55	355
MLRF10M331K	6	3.3	45	7.9	90	0.85	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	21	52
MLRF10M273K	12	270	30	0.79	8	25	47
MLRF10M333K	13	330	30	0.79	7	28	45
MLRF10M393K	14	390	30	0.79	6.5	35	40
MLRF10M473K	15	470	30	0.79	6	42	36
MLRF10M563K	16	560	30	0.79	5	46	35
MLRF10M683K	17	680	30	0.79	4	60	30
MLRF10M823K	18	820	30	0.79	3.8	65	29
MLRF10M104K	19	1000	30	0.79	3.4	72	28