

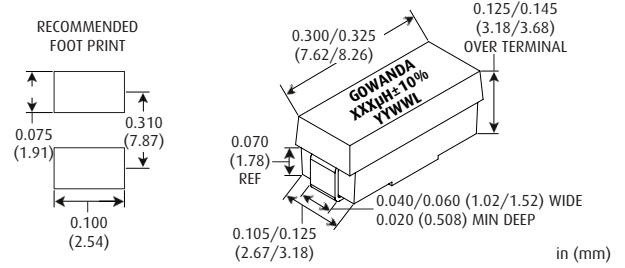
MLRF3013 SERIES



MIL-PRF-83446/31, /32, /33 Qualified Unshielded Inductor

Military Specifications:
M83446/31, M83446/32, M83446/33

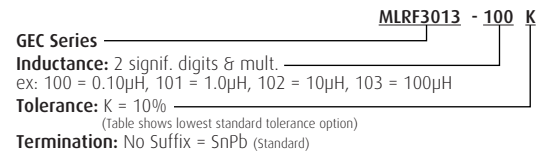
PART NUMBER	MIL DASH NO.	L μ H	Q MIN	TEST FREQ MHz	SRF MHz MIN ¹	DCR Ω MAX	CURRENT RATING mA DC
MIL-PRF-83446/31 PHENOLIC CORE							
MLRF3013-100K	01F	0.100	40	25	680	0.08	1380
MLRF3013-120K	02F	0.120	40	25	640	0.09	1300
MLRF3013-150K	03F	0.150	38	25	600	0.10	1230
MLRF3013-180K	04F	0.180	35	25	550	0.12	1120
MLRF3013-220K	05F	0.220	33	25	510	0.14	1040
MLRF3013-270K	06F	0.270	33	25	430	0.16	975
MLRF3013-330K	07F	0.330	30	25	410	0.22	830
MLRF3013-390K	08F	0.390	30	25	365	0.30	710
MLRF3013-470K	09F	0.470	30	25	330	0.35	660
MLRF3013-560K	10F	0.560	30	25	300	0.50	550
MLRF3013-680K	11F	0.680	28	25	275	0.60	500
MLRF3013-820K	12F	0.820	28	25	250	0.85	420
MLRF3013-101K	13F	1.0	25	25	230	1.0	390
MIL-PRF-83446/32 POWDERED IRON CORE							
MLRF3013-121K	01F	1.2	25	7.9	150	0.18	620
MLRF3013-151K	02F	1.5	28	7.9	140	0.22	560
MLRF3013-181K	03F	1.8	30	7.9	125	0.30	480
MLRF3013-221K	04F	2.2	30	7.9	115	0.40	415
MLRF3013-271K	05F	2.7	37	7.9	100	0.55	355
MLRF3013-331K	06F	3.3	45	7.9	90	0.85	285
MLRF3013-391K	07F	3.9	45	7.9	80	1.0	263
MLRF3013-471K	08F	4.7	45	7.9	75	1.2	239
MLRF3013-561K	09F	5.6	50	7.9	65	1.8	195
MLRF3013-681K	10F	6.8	50	7.9	60	2.0	185
MLRF3013-821K	11F	8.2	55	7.9	55	2.7	160
MLRF3013-102K	12F	10	55	7.9	50	3.3	144
MLRF3013-122K	13F	12	45	2.5	40	2.7	160
MLRF3013-152K	14F	15	45	2.5	35	2.8	157
MLRF3013-182K	15F	18	45	2.5	30	3.1	149
MLRF3013-222K	16F	22	45	2.5	25	3.3	144
MLRF3013-272K	17F	27	45	2.5	20	3.5	140
MIL-PRF-83446/33 FERRITE CORE							
MLRF3013-332K	01F	33	35	2.5	24	3.4	130
MLRF3013-392K	02F	39	35	2.5	22	3.6	125
MLRF3013-472K	03F	47	35	2.5	20	4.5	110
MLRF3013-562K	04F	56	35	2.5	18	5.7	100
MLRF3013-682K	05F	68	35	2.5	15	6.7	92
MLRF3013-822K	06F	82	35	2.5	14	7.3	88
MLRF3013-103K	07F	100	35	2.5	13	8.0	84
MLRF3013-123K	08F	120	30	0.79	12	13	66
MLRF3013-153K	09F	150	30	0.79	11	15	61
MLRF3013-183K	10F	180	30	0.79	10	17	57
MLRF3013-223K	11F	220	30	0.79	9.0	21	52
MLRF3013-273K	12F	270	30	0.79	8.0	25	47
MLRF3013-333K	13F	330	30	0.79	7.0	28	45
MLRF3013-393K	14F	390	30	0.79	6.5	35	40
MLRF3013-473K	15F	470	30	0.79	6.0	42	36
MLRF3013-563K	16F	560	30	0.79	5.0	46	35
MLRF3013-683K	17F	680	30	0.79	4.2	60	30
MLRF3013-823K	18F	820	30	0.79	3.8	65	29
MLRF3013-104K	19F	1000	30	0.79	3.4	72	28



NOTES

- **Operating Temperature Range:**
-55°C to +125°C for M83446/31
-55°C to +105°C for M83446/32 & M83446/33
- **Current Rating** at 90°C Ambient:
35°C Rise for M83446/31
15°C Rise for M83446/32 & M83446/33
- **DWV** 500 Vrms @ Sea Level
200 Vrms @ 70,000 Feet
- **Maximum Power Dissipation** at 90°C Ambient:
210 mW for M83446/31
90 mW for M83446/32
73 mW for M83446/33
- **Weight Max:** 0.301 grams
- **Marking:** GOWANDA; XXX μ H \pm 10%; YYWWL (see diagram above)
- Materials are fungus-inert to meet method 508 of MIL-STD-810H

PART NUMBER DERIVATION



EXAMPLE OF ORDERING BY MILITARY PART NUMBER:
MLRF3013-100K \rightarrow M83446/31-01F

TAPE AND REEL SPECS

Pieces/reel maximum:	3000
Pitch between parts:	8 mm
Tape width:	16 mm
Reel diameter:	13 in.