

# QPL RF INDUCTORS - SURFACE MOUNT

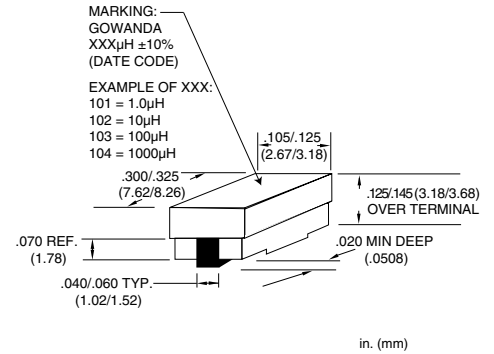


## MLRF3013 RF Inductors - Military Approved Qualified To:



### M83446/31 Phenolic Core

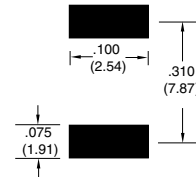
PART NUMBER	MIL DASH #	L $\mu$ H $\pm$ 10%	Q MIN	TEST FREQ. MHz	SRF MIN MHz	DCR OHMS MAX	CURRENT RATING mA
MLRF3013-100K	01F	0.10	40	25	680	.08	1380
MLRF3013-120K	02F	0.12	40	25	640	.09	1300
MLRF3013-150K	03F	0.15	38	25	600	.10	1230
MLRF3013-180K	04F	0.18	35	25	550	.12	1120
MLRF3013-220K	05F	0.22	33	25	510	.14	1040
MLRF3013-270K	06F	0.27	33	25	430	.16	975
MLRF3013-330K	07F	0.33	30	25	410	.22	830
MLRF3013-390K	08F	0.39	30	25	365	.30	710
MLRF3013-470K	09F	0.47	30	25	330	.35	660
MLRF3013-560K	10F	0.56	30	25	300	.50	550
MLRF3013-680K	11F	0.68	28	25	275	.60	500
MLRF3013-820K	12F	0.82	28	25	250	.85	420
MLRF3013-101K	13F	1.00	25	25	230	1.00	390



### M83446/32 Iron Core

PART NUMBER	MIL DASH #	L $\mu$ H $\pm$ 10%	Q MIN	TEST FREQ. MHz	SRF MIN MHz	DCR OHMS MAX	CURRENT RATING mA
MLRF3013-121K	01F	1.20	25	7.9	150	.18	620
MLRF3013-151K	02F	1.50	28	7.9	140	.22	560
MLRF3013-181K	03F	1.80	30	7.9	125	.30	480
MLRF3013-221K	04F	2.20	30	7.9	115	.40	415
MLRF3013-271K	05F	2.70	37	7.9	100	.55	355
MLRF3013-331K	06F	3.30	45	7.9	90	.85	285
MLRF3013-391K	07F	3.90	45	7.9	80	1.00	263
MLRF3013-471K	08F	4.70	45	7.9	75	1.20	239
MLRF3013-561K	09F	5.60	50	7.9	65	1.80	195
MLRF3013-681K	10F	6.80	50	7.9	60	2.00	185
MLRF3013-821K	11F	8.20	55	7.9	55	2.70	160
MLRF3013-102K	12F	10.0	55	7.9	50	3.30	144
MLRF3013-122K	13F	12.0	45	2.5	40	2.70	160
MLRF3013-152K	14F	15.0	45	2.5	35	2.80	157
MLRF3013-182K	15F	18.0	45	2.5	30	3.10	149
MLRF3013-222K	16F	22.0	45	2.5	25	3.30	144
MLRF3013-272K	17F	27.0	45	2.5	20	3.50	140

### RECOMMENDED FOOT PRINT



### NOTES:

- Operating Temperature Phenolic: -55°C to +125°C  
Operating Temperature Iron & Ferrite: -55°C to +105°C
- Current Rating @90°C Ambient  
Max. Temp Rise: 35°C Phenolic  
15°C Iron & Ferrite
- Maximum Power Dissipation at 90°C Ambient:  
210mW Phenolic  
90mW Iron  
73mW Ferrite
- Weight Max. .30 Grams
- DWV 500Vrms  
200Vrms @ 70,000 Feet
- Supplied on tape and reel, 2200 Parts/Reel

### TAPE AND REEL SPECS:

Pcs./Reel maximum:	2200
Pitch between parts:	8 mm
Tape width:	16 mm
Reel diameter inches:	13

### M83446/33 Ferrite Core

PART NUMBER	MIL DASH #	L $\mu$ H $\pm$ 10%	Q MIN	TEST FREQ. MHz	SRF MIN MHz	DCR OHMS MAX	CURRENT RATING mA
MLRF3013-332K	01F	33.0	35	2.5	24	3.40	130
MLRF3013-392K	02F	39.0	35	2.5	22	3.60	125
MLRF3013-472K	03F	47.0	35	2.5	20	4.50	110
MLRF3013-562K	04F	56.0	35	2.5	18	5.70	100
MLRF3013-682K	05F	68.0	35	2.5	15	6.70	92
MLRF3013-822K	06F	82.0	35	2.5	14	7.30	88
MLRF3013-103K	07F	100	35	2.5	13	8.00	84
MLRF3013-123K	08F	120	30	.79	12	13	66
MLRF3013-153K	09F	150	30	.79	11	15	61
MLRF3013-183K	10F	180	30	.79	10	17	57
MLRF3013-223K	11F	220	30	.79	9.0	21	52
MLRF3013-273K	12F	270	30	.79	8.0	25	47
MLRF3013-333K	13F	330	30	.79	7.0	28	45
MLRF3013-393K	14F	390	30	.79	6.5	35	40
MLRF3013-473K	15F	470	30	.79	6.0	42	36
MLRF3013-563K	16F	560	30	.79	5.0	46	35
MLRF3013-683K	17F	680	30	.79	4.2	60	30
MLRF3013-823K	18F	820	30	.79	3.8	65	29
MLRF3013-104K	19F	1000	30	.79	3.4	72	28