

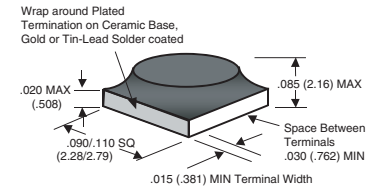
QPL RF INDUCTORS - SURFACE MOUNT



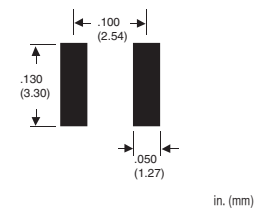
MLRF1010 Surface Mount Chip Inductors - Military Approved

MIL-PRF-83446/4

PART NUMBER {1}	MIL DASH NUMBER **	L μ H	TOLERANCE	Q MIN	TEST FREQ. MHz	SRF {2} MHz MIN	DCR OHMS MAX	DC CURRENT RATING {3} mA MAX
MLRF1010-010*	30/37	.010	$\pm$ *	60	50	2700	.060	1270
MLRF1010-012K	38	.012	$\pm$ 10%	57	50	2450	.069	1190
MLRF1010-015*	31/39	.015	$\pm$ *	55	50	2200	.078	1110
MLRF1010-018K	40	.018	$\pm$ 10%	52	50	2000	.093	1030
MLRF1010-022*	32/41	.022	$\pm$ *	50	50	1800	.108	950
MLRF1010-027K	42	.027	$\pm$ 10%	49	50	1625	.114	925
MLRF1010-033*	33/43	.033	$\pm$ *	48	50	1450	.120	900
MLRF1010-039K	44	.039	$\pm$ 10%	45	50	1335	.133	860
MLRF1010-047*	34/45	.047	$\pm$ *	42	50	1220	.145	820
MLRF1010-056K	46	.056	$\pm$ 10%	39	50	1110	.170	760
MLRF1010-068*	35/47	.068	$\pm$ *	36	50	1000	.195	705
MLRF1010-082K	48	.082	$\pm$ 10%	34	50	915	.212	675
MLRF1010-100*	36/49	.100	$\pm$ *	32	50	830	.230	650
MLRF1010-120K	01	.12	$\pm$ 10%	30	25	750	.125	880
MLRF1010-150K	02	.15	$\pm$ 10%	25	25	650	.175	745
MLRF1010-180K	03	.18	$\pm$ 10%	25	25	550	.200	695
MLRF1010-220K	04	.22	$\pm$ 10%	25	25	450	.220	665
MLRF1010-270K	05	.27	$\pm$ 10%	25	25	375	.230	650
MLRF1010-330K	06	.33	$\pm$ 10%	25	25	300	.235	645
MLRF1010-390K	07	.39	$\pm$ 10%	22	25	235	.240	635
MLRF1010-470K	08	.47	$\pm$ 10%	22	25	215	.260	610
MLRF1010-560K	09	.56	$\pm$ 10%	22	25	195	.278	590
MLRF1010-680K	10	.68	$\pm$ 10%	22	25	175	.520	435
MLRF1010-820K	11	.82	$\pm$ 10%	22	25	160	.530	430
MLRF1010-101K	12	1.0	$\pm$ 10%	22	25	145	.540	425
MLRF1010-121K	13	1.2	$\pm$ 10%	22	7.9	130	.740	360
MLRF1010-151K	14	1.5	$\pm$ 10%	22	7.9	115	.840	340
MLRF1010-181K	15	1.8	$\pm$ 10%	22	7.9	105	.920	325
MLRF1010-221K	16	2.2	$\pm$ 10%	22	7.9	85	1.00	310
MLRF1010-271K	17	2.7	$\pm$ 10%	24	7.9	77	1.15	290
MLRF1010-331K	18	3.3	$\pm$ 10%	24	7.9	70	1.40	260
MLRF1010-391K	19	3.9	$\pm$ 10%	24	7.9	68	1.55	250
MLRF1010-471K	20	4.7	$\pm$ 10%	24	7.9	60	1.80	230
MLRF1010-561K	21	5.6	$\pm$ 10%	22	7.9	55	2.00	220
MLRF1010-681K	22	6.8	$\pm$ 10%	22	7.9	50	2.20	210
MLRF1010-821K	23	8.2	$\pm$ 10%	22	7.9	48	2.50	195
MLRF1010-102K	24	10	$\pm$ 10%	24	7.9	40	3.45	165
MLRF1010-122K	25	12	$\pm$ 10%	25	2.5	35	3.80	160
MLRF1010-152K	26	15	$\pm$ 10%	25	2.5	30	5.60	135
MLRF1010-272K	27	18	$\pm$ 10%	25	2.5	28	5.80	130
MLRF1010-222K	28	22	$\pm$ 10%	25	2.5	25	6.40	125
MLRF1010-272K	29	27	$\pm$ 10%	25	2.5	22	6.90	120



RECOMMENDED FOOT PRINT



NOTES:

- Operating temperature -55°C to +125°C
- Current rating is based on a 90°C ambient; 35°C max temperature rise
- Weight maximum 0.50 grams
- DWV 200 Vrms @ sea level
80 Vrms @ 70,000 feet
- Supplied on Tape & Reel: 2000 parts on 7 inch reel
- * Measured at 1 V ac open circuit with no dc current at 1 KHz
- * Suffix K for 10% Tolerance, Suffix M for 20%
- ** Where there are 2 Mil dash numbers, the first is 20% tolerance and the second is 10% tolerance

{1} Add suffix letter "S" to order with tin/lead solder coat

{2} SRF values above 250MHz are calculated and are for reference only

{3} These values are also the maximum incremental current for ferrites only. Incremental current will not change the inductance more than 5% from the zero DC inductance measurement

Note:

Gold termination is code "A" finish of Mil-PRF-83446

Solder termination is code "B" & "F" finish of Mil-PRF-83446

Example of ordering by Military number for

MLRF1010-220K: M83446/4-04A
MLRF1010-220KS: M83446/4-04B