

MLRF0805 SERIES



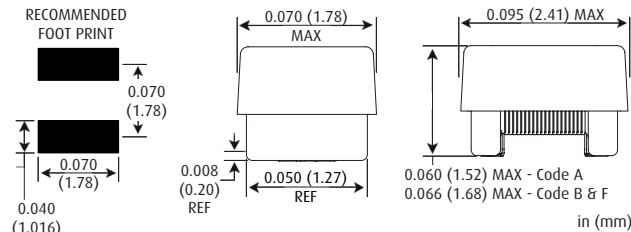
MIL-PRF-83446/37 Qualified Ceramic Chip Inductor

Military Specifications:

M83446/37

Outgassing Tested per ASTM E595 (*)

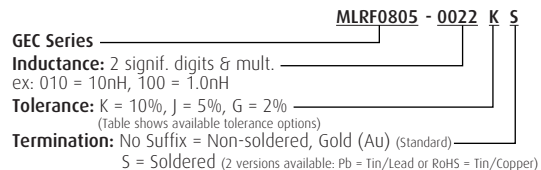
PART NUMBER	MIL DASH NO.	L nH	IND TOL %	L TEST FREQ MHz	Q MIN	Q TEST FREQ MHz	SRF MHz MIN	DCR Ω MAX	CURRENT RATING mA DC
MIL-PRF-83446/37 CERAMIC CORE									
MLRF0805-0022K	01^K	2.2	10, 20	250	55	1800	6000	0.080	1000
MLRF0805-0027K	02^K	2.7	10, 20	250	55	1800	6000	0.080	1000
MLRF0805-0033K	03^K	3.3	10, 20	250	50	1500	6000	0.080	1000
MLRF0805-0047M	04^M	4.7	20	250	60	1500	5000	0.080	1000
MLRF0805-0056J	05^J	5.6	5, 10, 20	250	60	1500	5000	0.090	1000
MLRF0805-0068J	06^J	6.8	5, 10, 20	250	60	1500	4600	0.110	1000
MLRF0805-0082J	07^J	8.2	5, 10, 20	250	55	1500	4600	0.120	970
MLRF0805-010J	08^J	10	5, 10, 20	250	60	1500	4500	0.130	930
MLRF0805-012G	09^G	12	2, 5, 10	250	65	500	4000	0.150	870
MLRF0805-015G	10^G	15	2, 5, 10	250	50	500	2800	0.170	810
MLRF0805-018G	11^G	18	2, 5, 10	250	50	500	2600	0.200	750
MLRF0805-022G	12^G	22	2, 5, 10	250	55	500	2300	0.220	720
MLRF0805-027G	13^G	27	2, 5, 10	250	55	500	2300	0.250	670
MLRF0805-033G	14^G	33	2, 5, 10	250	60	500	2000	0.270	650
MLRF0805-039G	15^G	39	2, 5, 10	250	60	500	2000	0.290	625
MLRF0805-047G	16^G	47	2, 5, 10	250	60	500	1900	0.310	600
MLRF0805-056G	17^G	56	2, 5, 10	250	50	500	1600	0.340	570
MLRF0805-068G	18^G	68	2, 5, 10	250	50	500	1500	0.380	540
MLRF0805-082G	19^G	82	2, 5, 10	150	55	500	1330	0.420	520
MLRF0805-100G	20^G	100	2, 5, 10	150	55	500	1250	0.460	490
MLRF0805-120G	21^G	120	2, 5, 10	150	45	250	1100	0.510	470
MLRF0805-150G	22^G	150	2, 5, 10	100	45	250	920	0.700	400
MLRF0805-180G	23^G	180	2, 5, 10	100	45	250	920	0.800	370
MLRF0805-220G	24^G	220	2, 5, 10	100	45	250	820	1.2	300
MLRF0805-270G	25^G	270	2, 5, 10	100	40	200	730	1.2	300
MLRF0805-330G	26^G	330	2, 5, 10	100	40	200	750	1.8	250
MLRF0805-390G	27^G	390	2, 5, 10	100	40	200	700	2.0	230
MLRF0805-470G	28^G	470	2, 5, 10	100	40	200	600	3.0	210
MLRF0805-560G	29^G	560	2, 5, 10	100	40	200	500	3.5	180
MLRF0805-680G	30^G	680	2, 5, 10	50	40	200	450	4.0	170
MLRF0805-820G	31^G	820	2, 5, 10	25	15	25	250	2.5	210
MLRF0805-101G	32^G	1000	2, 5, 10	25	15	25	250	3.0	195
MLRF0805-181G	33^G	1800	2, 5, 10	7.9	15	7.9	50	4.5	150
MLRF0805-221G	34^G	2200	2, 5, 10	7.9	15	7.9	40	5.0	140



NOTES

- **Operating Temperature Range:** -55°C to +125°C
- **Current Rating** is based on a 35°C temperature rise at an ambient temperature of 90°C
- **DWV** 200 Vrms @ Sea Level
80 Vrms @ 70,000 Feet
- **Weight Max:** 0.008 grams
* Meets a TML (Total Mass Loss) requirement of 1.0% maximum when testing in accordance with ASTM E595; this calculation does not include WVR (Water Vapor Recovered)

PART NUMBER DERIVATION



EXAMPLE OF ORDERING BY MILITARY PART NUMBER:

- MLRF0603-0022K → M83446/37-01AK
- MLRF0603-0022KS → M83446/37-01BK or M83446/37-01FK

TAPE AND REEL SPECS

Pieces/reel maximum:	2500
Pitch between parts:	4 mm
Tape width:	8 mm
Reel diameter:	7 in.