

**MLRF0603 SERIES**



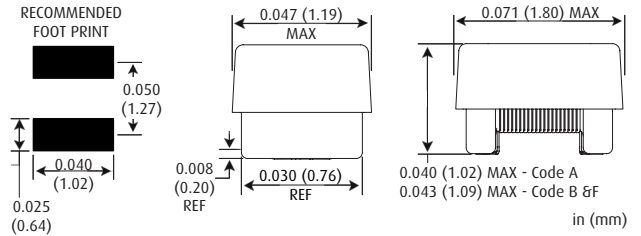
**MIL-PRF-83446/36 Qualified Ceramic Chip Inductor**

*Military Specifications:*

*M83446/36*

*Outgassing Tested per ASTM E595 (\*)*

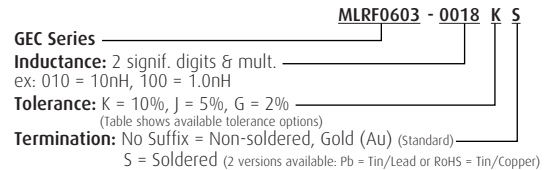
PART NUMBER	MIL DASH NO.	L nH	IND TOL %	Q MIN	L&Q TEST FREQ MHz	SRF MHz MIN	DCR Ω MAX	CURRENT RATING mA DC
<b>MIL-PRF-83446/36 CERAMIC CORE</b>								
MLRF0603-0018K	01^K	1.8	10	22	250	6000	0.070	1000
MLRF0603-0033G	24^G	3.3	2, 5, 10	22	250	6000	0.070	1000
MLRF0603-0036G	02^G	3.6	2, 5, 10	22	250	6000	0.070	1000
MLRF0603-0039G	03^G	3.9	2, 5, 10	22	250	6000	0.070	1000
MLRF0603-0043G	25^G	4.3	2, 5, 10	22	250	6000	0.090	885
MLRF0603-0047G	04^G	4.7	2, 5, 10	22	250	6000	0.090	885
MLRF0603-0056G	26^G	5.6	2, 5, 10	22	250	5800	0.100	840
MLRF0603-0068G	05^G	6.8	2, 5, 10	30	250	5800	0.100	840
MLRF0603-0087G	27^G	8.7	2, 5, 10	30	250	5200	0.140	705
MLRF0603-010G	06^G	10	2, 5, 10	31	250	4800	0.160	665
MLRF0603-012G	07^G	12	2, 5, 10	35	250	4000	0.130	735
MLRF0603-015G	08^G	15	2, 5, 10	35	250	4000	0.170	645
MLRF0603-016G	28^G	16	2, 5, 10	35	250	3400	0.170	645
MLRF0603-018G	09^G	18	2, 5, 10	35	250	3100	0.170	645
MLRF0603-022G	10^G	22	2, 5, 10	38	250	3000	0.190	610
MLRF0603-027G	11^G	27	2, 5, 10	40	250	2800	0.220	565
MLRF0603-033G	12^G	33	2, 5, 10	40	250	2300	0.220	565
MLRF0603-039G	13^G	39	2, 5, 10	40	250	2200	0.240	540
MLRF0603-047G	14^G	47	2, 5, 10	38	200	2000	0.280	500
MLRF0603-056G	15^G	56	2, 5, 10	38	200	1900	0.310	475
MLRF0603-068G	16^G	68	2, 5, 10	37	200	1700	0.360	440
MLRF0603-082G	17^G	82	2, 5, 10	34	150	1700	0.540	360
MLRF0603-100G	18^G	100	2, 5, 10	34	150	1400	0.750	305
MLRF0603-120G	19^G	120	2, 5, 10	32	150	1300	0.790	300
MLRF0603-150G	20^G	150	2, 5, 10	28	150	990	1.14	245
MLRF0603-180G	21^G	180	2, 5, 10	25	150	990	1.28	235
MLRF0603-220G	22^G	220	2, 5, 10	25	150	700	1.70	200
MLRF0603-270G	23^G	270	2, 5, 10	16	25	600	1.78	195



**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:**

MLRF0603-047K → M83446/36-14AK  
 MLRF0603-047KS → M83446/36-14BK or M83446/36-14FK

**TAPE AND REEL SPECS**

Pieces/reel maximum:	3000
Pitch between parts:	4 mm
Tape width:	8 mm
Reel diameter:	7 in.