

MLP1812 SERIES



M27 Unshielded High Current T-Level Inductor

Military Specifications:

MIL-PRF-27/368, T-Level Qualified

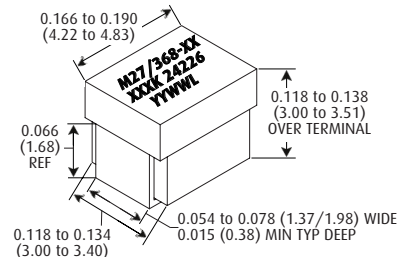
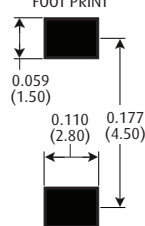
Outgassing Tested per ASTM E595 (*)



PART NUMBER	MIL DASH NO.	L μ H ¹	DCR Ω MAX	CURRENT RATING A DC	INC I A DC
M27/368 FERRITE CORE					
MLP1812-101K*	01*	1.0	0.113	1050	2400
MLP1812-121K*	02*	1.2	0.199	1000	2158
MLP1812-151K*	03*	1.5	0.222	950	1980
MLP1812-181K*	04*	1.8	0.240	900	1828
MLP1812-221K*	05*	2.2	0.268	850	1697
MLP1812-271K*	06*	2.7	0.288	800	1513
MLP1812-331K*	07*	3.3	0.323	750	1397
MLP1812-391K*	08*	3.9	0.347	700	1250
MLP1812-471K*	09*	4.7	0.401	650	1131
MLP1812-561K*	10*	5.6	0.437	650	1060
MLP1812-681K*	11*	6.8	0.472	600	990
MLP1812-821K*	12*	8.2	0.548	600	871
MLP1812-102K*	13*	10	0.608	550	772
MLP1812-122K*	14*	12	0.670	550	752
MLP1812-152K*	15*	15	0.780	450	693
MLP1812-182K*	16*	18	0.875	400	614
MLP1812-222K*	17*	22	1.200	370	515
MLP1812-272K*	18*	27	1.404	330	465
MLP1812-332K*	19*	33	1.578	300	425
MLP1812-392K*	20*	39	1.848	280	376
MLP1812-472K*	21*	47	2.064	260	366
MLP1812-562K*	22*	56	2.268	240	336
MLP1812-682K*	23*	68	3.408	220	297
MLP1812-822K*	24*	82	3.648	200	267
MLP1812-103K*	25*	100	4.320	180	238
MLP1812-123K*	26*	120	6.000	160	208
MLP1812-153K*	27*	150	6.432	140	183
MLP1812-183K*	28*	180	8.400	120	158
MLP1812-223K*	29*	220	9.680	120	143
MLP1812-273K*	30*	270	12.72	100	129
MLP1812-333K*	31*	330	15.24	90	118

¹ Measured at 1 V with no DC current at 1 kHz

RECOMMENDED FOOT PRINT

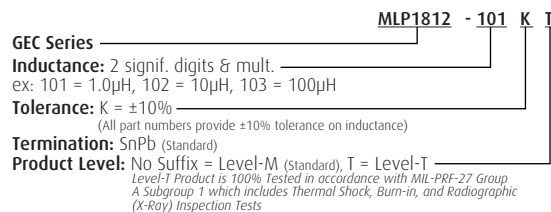


in (mm)

NOTES

- **Operating Temperature Range:** -55°C to +130°C
- **Current Rating** is based on a 40°C temperature rise at an ambient temperature of 90°C
- **Incremental Current** is the approximate value that will cause a 5% maximum decrease in inductance at a zero DC current
- **DWV** 200 Vrms @ Sea Level
80 Vrms @ 70,000 Feet
- **Insulation Resistance (IR):** 1,000 M Ω minimum at 500 V dc
- **Vibration:** MIL-STD-202, Method 204, test condition D
- **Moisture Resistance:** MIL-STD-202, Method 106
- **Bond Strength:** Force 2 lbs.
- **Weight Max:** 1.50 grams
- **Marking:** Laser Mark (see diagram above)
- **Case:** Grade 5, encapsulated
- **Body Color:** black
- Materials are fungus-inert to meet method 508 of MIL-STD-810H
- * Meets a TML (Total Mass Loss) requirement of 1.0% maximum when tested in accordance with ASTM E595; this calculation does not include WVR (Water Vapor Recovered)

PART NUMBER DERIVATION



EXAMPLE OF ORDERING BY MILITARY PART NUMBER:

MLP1812-101K → M27-368-01 (Standard Level-M Product Level)
MLP1812-101KT → M27-368-01T (Level-T Product Level)

TAPE AND REEL SPECS:

Pieces/reel maximum:	2000
Pitch between parts:	8 mm
Tape width:	12 mm
Reel diameter:	13 in.