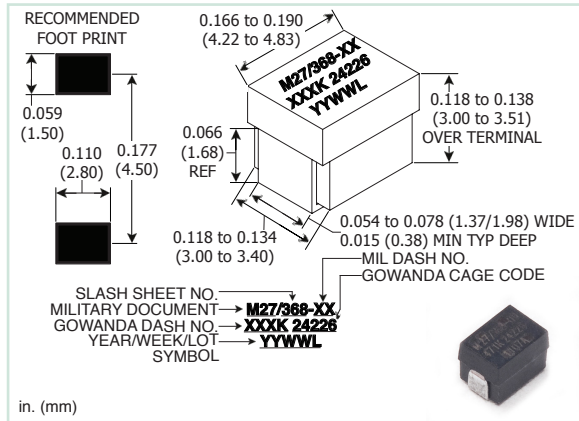


## MLP1812 TRADITIONAL Pb Surface Mount Power Inductors

**MIL-PRF-27/368 T-Level Qualified**  
Outgassing Tested per ASTM E595



### 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
- **Weight Max:** 1.50 grams
- **Marking:** Laser Mark (see diagram above)
- **Case:** Grade 5, encapsulated
- Body color is black
- Inductance is measured at 1 V ac open circuit with no dc current at 1 kHz
- When ordering, specify **tolerance** and **Product Level**<sup>1</sup>:

MLP1812-101KT

**Tolerance:** K = 10%

**Product Level:** All parts are approved to QPL Product Level M

\*To order parts approved to QPL Product Level T replace the asterisk (\*) with T

- When ordering by military part number, specify **Military Specification, Dash Number & Product Level**<sup>1</sup>:

M27/368-01T

<sup>1</sup> Only if Product Level "T" is required

- **Level-T Product** is 100% Tested in Accordance with MIL-PRF-27 Group A Subgroup I which includes Thermal Shock, Burn in, and Radiographic (X-Ray) Inspection Tests

### TAPE AND REEL SPECS:

Pcs./Reel maximum:	2200
Pitch between parts:	8 mm
Tape width:	12 mm
Reel diameter:	13 in.

PART NUMBER	MIL DASH No.	L μH	DCR Ω MAX	CURRENT RATING A DC	INC I A DC
<b>M27/368 FERRITE CORE</b>					
MLP1812-101K*	01*	1.0	0.113	1.05	2.400
MLP1812-121K*	02*	1.2	0.199	1.00	2.158
MLP1812-151K*	03*	1.5	0.222	0.95	1.980
MLP1812-181K*	04*	1.8	0.240	0.90	1.828
MLP1812-221K*	05*	2.2	0.268	0.85	1.697
MLP1812-271K*	06*	2.7	0.288	0.80	1.513
MLP1812-331K*	07*	3.3	0.323	0.75	1.397
MLP1812-391K*	08*	3.9	0.347	0.70	1.250
MLP1812-471K*	09*	4.7	0.401	0.65	1.131
MLP1812-561K*	10*	5.6	0.437	0.65	1.060
MLP1812-681K*	11*	6.8	0.472	0.60	0.990
MLP1812-821K*	12*	8.2	0.548	0.60	0.871
MLP1812-102K*	13*	10	0.608	0.55	0.772
MLP1812-122K*	14*	12	0.670	0.55	0.752
MLP1812-152K*	15*	15	0.780	0.45	0.693
MLP1812-182K*	16*	18	0.875	0.40	0.614
MLP1812-222K*	17*	22	1.200	0.37	0.515
MLP1812-272K*	18*	27	1.404	0.33	0.465
MLP1812-332K*	19*	33	1.578	0.30	0.425
MLP1812-392K*	20*	39	1.848	0.28	0.376
MLP1812-472K*	21*	47	2.064	0.26	0.366
MLP1812-562K*	22*	56	2.268	0.24	0.336
MLP1812-682K*	23*	68	3.408	0.22	0.297
MLP1812-822K*	24*	82	3.648	0.20	0.267
MLP1812-103K*	25*	100	4.320	0.18	0.238
MLP1812-123K*	26*	120	6.000	0.16	0.208
MLP1812-153K*	27*	150	6.432	0.14	0.183
MLP1812-183K*	28*	180	8.400	0.12	0.158
MLP1812-223K*	29*	220	9.680	0.12	0.143
MLP1812-273K*	30*	270	12.720	0.10	0.129
MLP1812-333K*	31*	330	15.240	0.09	0.118