

High current, low profile, miniature power inductors –

ML201612L Series

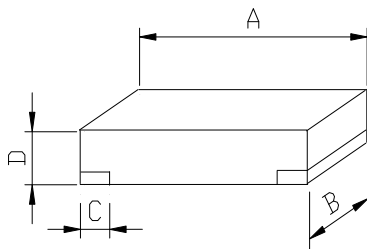


PART NUMBERING SYSTEM

ML	201612L	—	R47M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

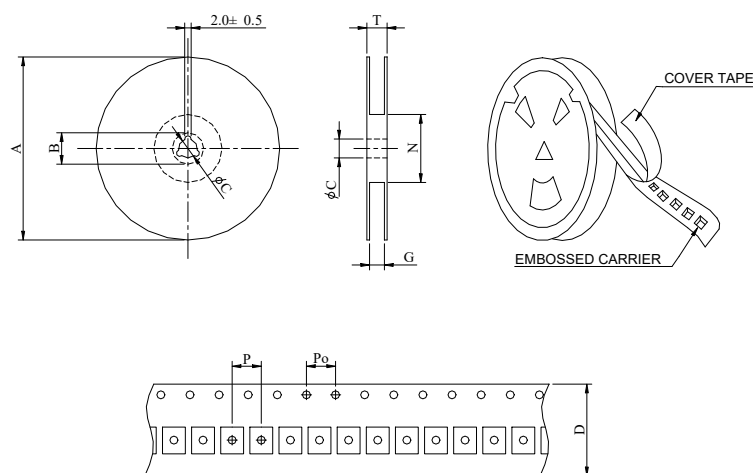
SHAPES AND DIMENSIONS

UNIT : mm



A= 2.0±0.3 B=1.6±0.3 C=0.6±0.3 D=1.2 Max.

PACKAGING SPECIFICATION



SERIES	STAYLE	Q'TY (PCS)	DIMENSIONS (m/m)								
			A	B±0.8	C±0.5	D	G ⁺⁰	N ⁰	P	Po	T
ML201612L	178	3,000	178	21	13	8	18	50	4	4	22.4



High current, low profile, miniature power inductors –

ML201612L Series



SPECIFICATION TABLE

PART NUMBER	Inductance (uH) at 1MHz	DCR (mΩ) (max)	Isat (A) (Typ.)	Irms (A) (Typ.)	Test Frequency
ML201612L-R47M-LF	0.47±20%	28	5.8	4.5	1MHz/1V
ML201612L-1R0M-LF	1.0±20%	48	4.0	3.2	1MHz/1V
ML201612L-1R5M-LF	1.5±20%	72	2.7	2.5	1MHz/1V
ML201612L-2R2M-LF	2.2±20%	110	2.6	1.9	1MHz/1V

FEATURES

1. **Magnetic shielding** allows high-density mounting
2. **Ultra-small shielded power inductor** – only **1.2 mm** high, **2.0× 1.6 mm** footprint
3. Handles **current up to 5.8 Amps**
4. Excellent mounting strength by SMD chip making
5. **Isat** means that DC current will cause a **30% inductance reduction** from initial value .
6. **Irms** means that DC current will cause **coil temperature rising to 40°C** whichever is smaller.
7. **RoHS-compliant**. 260°C compatible.
8. Operating Temperature Range : -55°C to +125°C