

## High current, low profile, miniature power inductors –

### ML201610L Series

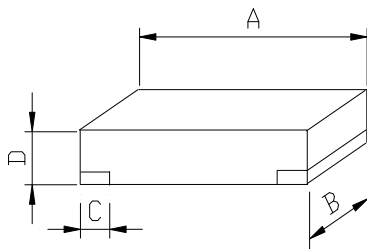


#### PART NUMBERING SYSTEM

<b>ML</b>	<b>201610L</b>	—	<b>R24M</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

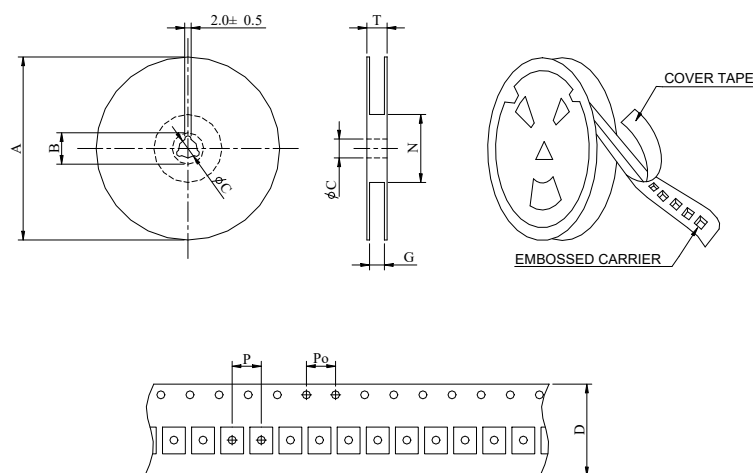
#### SHAPES AND DIMENSIONS

UNIT : mm



A= 2.0±0.3    B=1.6±0.3    C=0.6±0.3    D=1.0 Max.

#### PACKAGING SPECIFICATION



SERIES	STAYLE	Q'TY (PCS)	DIMENSIONS (m/m)								
			A	B±0.8	C±0.5	D	G <sup>+</sup> 0	N <sup>0</sup>	P	Po	T
ML201610L	178	3,000	178	21	13	8	18	50	4	4	22.4



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#### SPECIFICATION TABLE

PART NUMBER	Inductance (uH) at 1MHz	DCR (mΩ) (max)	Isat (A) (Typ.)	Irms (A) (Typ.)	Test Frequency
ML201610L-R24M-LF	0.24±20%	19	7.5	6.5	1MHz/1V
ML201610L-R47M-LF	0.47±20%	31	5.4	4.5	1MHz/1V
ML201610L-1R0M-LF	1.0±20%	65	4.0	3.2	1MHz/1V
ML201610L-1R5M-LF	1.5±20%	90	3.0	2.1	1MHz/1V
ML201610L-2R2M-LF	2.2±20%	140	2.7	1.9	1MHz/1V

#### FEATURES

1. **Magnetic shielding** allows high-density mounting
2. **Ultra-small shielded power inductor** – only **1.0 mm** high, **2.0× 1.6 mm** footprint
3. Handles **current up to 7.5 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