

## ML322512HE SERIES – Molding Power Inductors

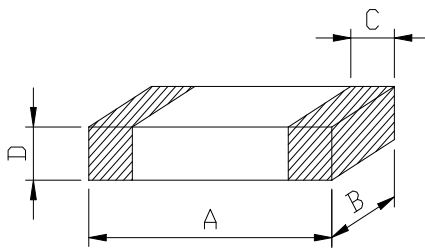


### PART NUMBERING SYSTEM

<b>ML</b>	<b>322512HE</b>	—	<b>R47M</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

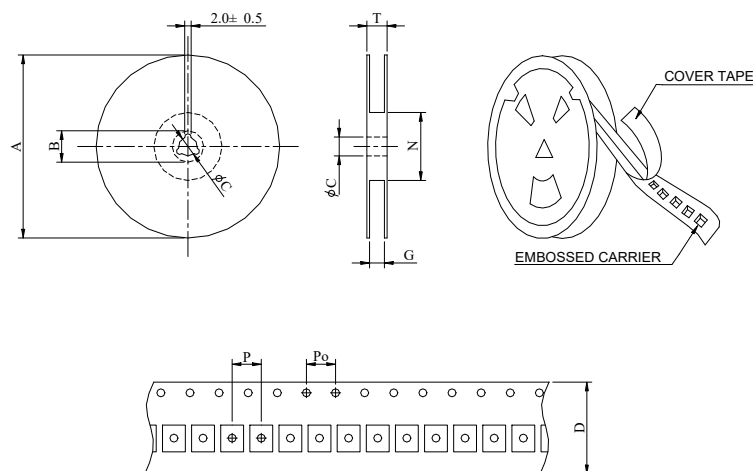
### SHAPES AND DIMENSIONS

UNIT : mm



A= 3.2±0.3    B=2.5±0.3    C=0.5±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 <sup>+</sup>	N <sup>0</sup>	P	Po	T
ML322512HE	178	3,000	178	21	13	8	18	50	4	4	22.4



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### SPECIFICATION TABLE

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR (m $\Omega$ ) Max. (Typ.)	Isat(A) Max. (Typ.)	Irms(A) Max. (Typ.)	TEST FREQ. (MHz)
ML322512HE-R47M-LF	0.47 $\pm$ 20%	29.0 (19.0)	7.00 (8.2)	4.60 (5.20)	2MHz/1V
ML322512HE-1R0M-LF	1.00 $\pm$ 20%	34.0 (27.5)	5.70 (6.5)	3.70 (4.20)	2MHz/1V
ML322512HE -1R5M-LF	1.50 $\pm$ 20%	59.0 (51.0)	4.00 (4.6)	2.80 (3.20)	2MHz/1V
ML322512HE -2R2M-LF	2.20 $\pm$ 20%	73.0 (64.0)	3.50 (4.0)	2.70 (3.00)	2MHz/1V

### FEATURES

1. **Magnetic shielding** allows high-density mounting
2. **Ultra-small shielded power inductor** – only **1.2 mm** high, **3.5× 2.5 mm** footprint
3. Handles **current up to 7.0 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 : -40°C to +125°C