

ML322510HE SERIES – Molding Power Inductors

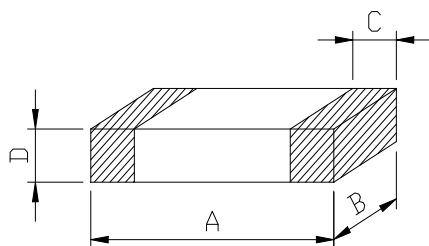


PART NUMBERING SYSTEM

ML	322510HE	—	1R0M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

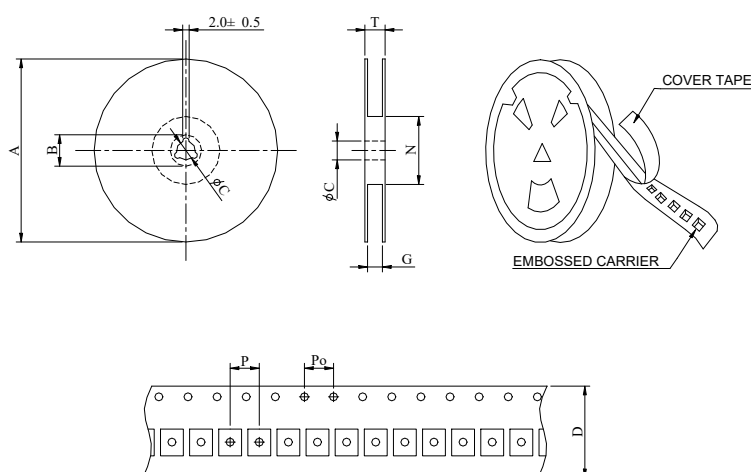
SHAPES AND DIMENSIONS

UNIT : mm



A= 3.2±0.3 B=2.5±0.3 C=0.5±0.3 D=1.0 Max.

PACKAGING SPECIFICATION



SERIES	STAYLE	Q'TY (PCS)	DIMENSIONS (m/m)								
			A	B±0.8	C±0.5	D	G ⁺	N ⁰	P	Po	T
ML322510HE	178	3,000	178	21	13	8	18	50	4	4	22.4



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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	DCR (m Ω) Max. (Typ.)	Isat(A) Max. (Typ.)	Irms(A) Max. (Typ.)	TEST FREQ. (MHz)
ML322510HE-R24M-LF	0.24 \pm 20%	16.0 (12.0)	9.00 (11.5)	6.00 (6.80)	2MHz/1V
ML322510HE-R33M-LF	0.33 \pm 20%	17.0 (12.5)	8.00 (9.50)	5.80 (6.50)	2MHz/1V
ML322510HE-R47M-LF	0.47 \pm 20%	24.0 (19.0)	6.00 (7.30)	4.50 (5.40)	2MHz/1V
ML322510HE-1R0M-LF	1.00 \pm 20%	46.0 (39.0)	4.10 (4.70)	3.30 (3.70)	2MHz/1V
ML322510HE -1R5M-LF	1.50 \pm 20%	58.0 (50.0)	3.50 (4.00)	3.20 (3.50)	2MHz/1V
ML322510HE -2R2M-LF	2.20 \pm 20%	85.0 (73.0)	3.00 (3.50)	2.50 (2.80)	2MHz/1V

FEATURES

1. **Magnetic shielding** allows high-density mounting
2. **Ultra-small shielded power inductor** – only **1.0 mm** high, **3.5 \times 2.5 mm** footprint
3. Handles **current up to 9.0 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