



High current, low profile, miniature power inductors –

ML322520L Series

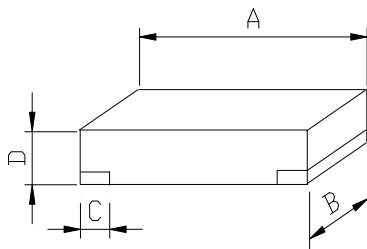


PART NUMBERING SYSTEM

ML	322520L	—	1R0M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

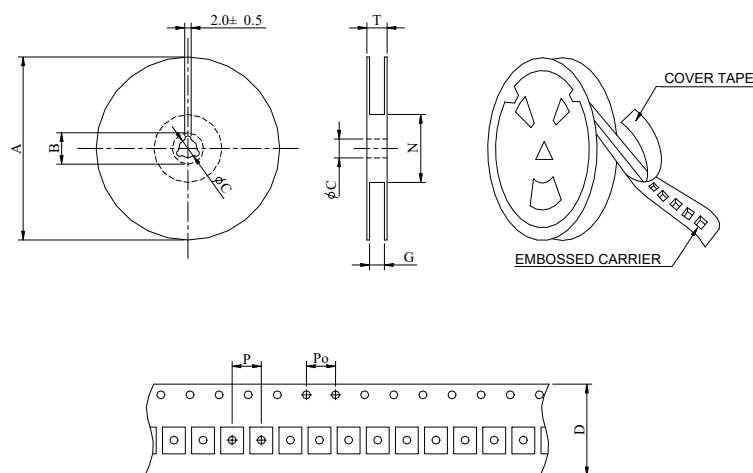
SHAPES AND DIMENSIONS

UNIT : mm



A = 3.5±0.3 B = 2.5±0.3 C = 0.6±0.3 D = 2.0 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
ML322520L	178	2,000	178	21	13	8	18	50	4	4	22.4



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SPECIFICATION TABLE

PART NUMBER	Inductance (μ H) at 1MHz	DCR ($m\Omega$) (max)	Isat (A) (Typ.)	Irms (A) (Typ.)	Test Frequency
ML322520L-1R0M-LF	1.0 \pm 20%	24	7.6	4.5	1MHz/1V
ML322520L-2R2M-LF	2.2 \pm 20%	40	4.6	3.0	1MHz/1V

FEATURES

1. **Magnetic shielding** allows high-density mounting
2. **Ultra-small shielded power inductor** – only **2.0 mm** high, **3.2× 2.5 mm** footprint
3. Handles **current up to 7.6 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