



Miniature High Current Molded Inductors - ML252012QS

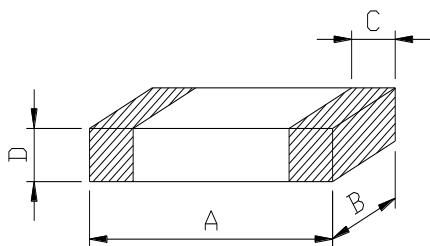


PART NUMBERING SYSTEM

ML	252012QS	—	2R2M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

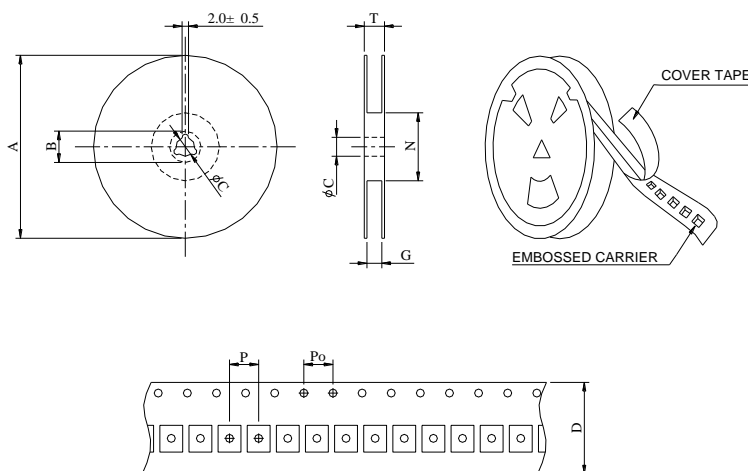
SHAPES AND DIMENSIONS

UNIT : mm



A= 2.5±0.3 B=2.0±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 ⁺	N ⁰	P	Po	T
ML252012QS	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)
ML252012QS-R47M-LF	0.47 \pm 20%	22.0 (16)	6.2 (6.8)	4.9 (5.8)	1MHz/1V
ML252012QS-1R0M-LF	1.00 \pm 20%	44.0 (36)	4.3 (4.8)	3.3 (3.9)	1MHz/1V
ML252012QS-2R2M-LF	2.20 \pm 20%	89.0 (74)	3.2 (3.5)	2.2 (2.5)	1MHz/1V
ML252012QS-4R7M-LF	4.70 \pm 20%	180 (160)	2.2 (2.0)	1.8 (1.5)	1MHz/1V

FEATURES

1. **Magnetic shielding** allows high-density mounting
2. **Ultra-small shielded power inductor** – only **1.2 mm** high, **2.5× 2 mm** footprint
3. Handles **current up to 6.8 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 : -40°C to +125°C