

## ML252010QS SERIES - High Current Power Inductors

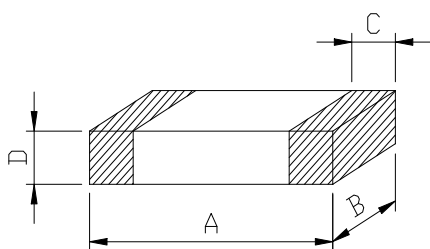


### PART NUMBERING SYSTEM

<b>ML</b>	<b>252010QS</b>	—	<b>1R5M</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

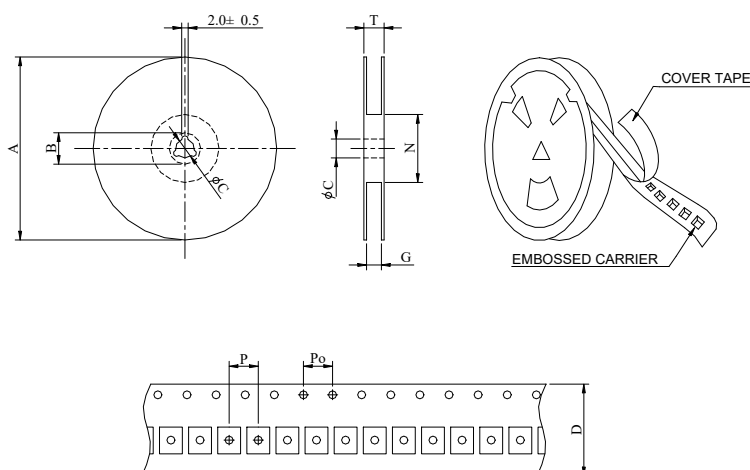
### SHAPES AND DIMENSIONS

UNIT : mm



A= 2.5±0.3    B=2.0±0.3    C=0.6±0.3    D=1.0 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
ML252010QS	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)
ML252010QS-R33M-LF	0.33 $\pm$ 20%	22 (17)	7.0 (7.8)	4.8 (5.6)	1MHz/1V
ML252010QS-R47M-LF	0.47 $\pm$ 20%	29 (23)	6.0 (6.6)	4.4 (5.2)	1MHz/1V
ML252010QS-1R0M-LF	1.00 $\pm$ 20%	52 (41)	4.0 (4.4)	3.1 (3.4)	1MHz/1V
ML252010QS-1R5M-LF	1.50 $\pm$ 20%	77 (67)	3.5 (3.8)	2.3 (2.6)	1MHz/1V
ML252010QS-2R2M-LF	2.20 $\pm$ 20%	110 (88)	3.0 (3.3)	2.1 (2.4)	1MHz/1V

### FEATURES

1. **Magnetic shielding** allows high-density mounting
2. **Ultra-small shielded power inductor** – only 1 mm high, 2.5× 2 mm footprint
3. Handles **current up to 7.8 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