

# ML252010QP SERIES – High Current Power Inductors

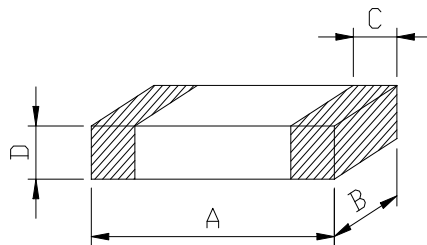


## PART NUMBERING SYSTEM

<b>ML</b>	<b>252010QP</b>	—	<b>2R2M</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

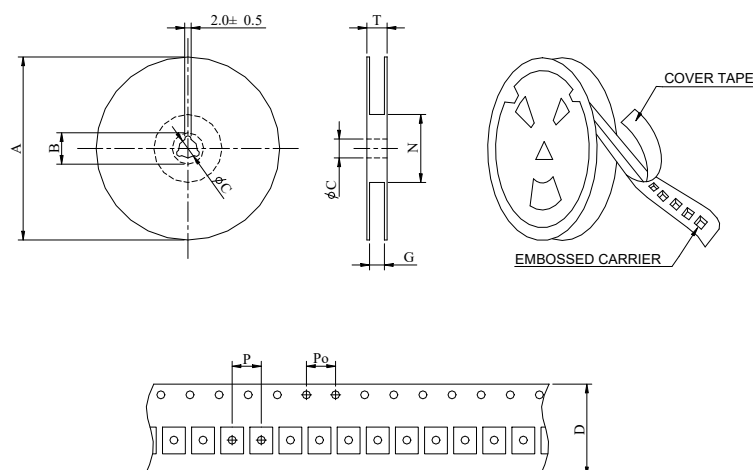
## SHAPES AND DIMENSIONS

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
ML252010QP	178	3,000	178	21	13	8	18	50	4	4	22.4



## ML252010QP SERIES – High Current Power Inductors



### SPECIFICATION TABLE

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR (m $\Omega$ ) Max. (Typ.)	Isat(A) Max. (Typ.)	Irms(A) Max. (Typ.)	TEST FREQ. (MHz)
ML252010QP-R22M-LF	0.22 $\pm$ 20%	12.5 (9.0)	7.20 (7.9)	5.30 (5.9)	1MHz/1V
ML252010QP-R33M-LF	0.33 $\pm$ 20%	26.0 (21)	6.00 (6.6)	4.00 (4.4)	1MHz/1V
ML252010QP-R47M-LF	0.47 $\pm$ 20%	32.0 (27)	4.50 (5.0)	3.51 (3.9)	1MHz/1V
ML252010QP-R68M-LF	0.68 $\pm$ 20%	44.0 (37)	3.87 (4.3)	3.06 (3.4)	1MHz/1V
ML252010QP-1R0M-LF	1.00 $\pm$ 20%	54.0 (45)	3.15 (3.5)	2.70 (3.0)	1MHz/1V
ML252010QP-1R5M-LF	1.50 $\pm$ 20%	91.0 (76)	2.34 (2.6)	2.25 (2.5)	1MHz/1V
ML252010QP-2R2M-LF	2.20 $\pm$ 20%	119.0 (99)	2.16 (2.4)	2.07 (2.3)	1MHz/1V
ML252010QP-4R7M-LF	4.70 $\pm$ 20%	262.0 (220)	1.62 (1.8)	1.22 (1.36)	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 7.2 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