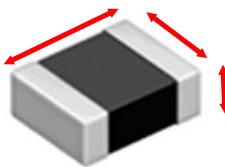
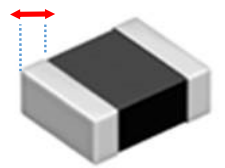

<b>Manufacturer Part Number</b>		Coilmaster Part Number	MURATA Part Number
	0.47 $\mu$ H	ML252012QS-R47M-LF	DFE252012P-R47M=P2
	1.00 $\mu$ H	ML252012QS-1R0M-LF	DFE252012P-1R0M=P2
	2.20 $\mu$ H	ML252012QS-2R2M-LF	DFE252012P-2R2M=P2
<b>Operating Temp range °C</b>		-40 ~ 125	-40 ~ 125
<b>Dimensions (mm)</b>		Length = 2.5 $\pm$ 0.2  Width = 2.0 $\pm$ 0.2  Thickness = 0.9 $\pm$ 0.1	Length = 2.5 $\pm$ 0.2  Width = 2.0 $\pm$ 0.2  Thickness = 1.2 max
<b>E (mm)</b>		0.5 $\pm$ 0.2	0.6 $\pm$ 0.2

**Applications**

- DC/DC converter, DSC, DVC
- Handheld/mobile devices
- Smart phones
- Tablets/e-readers
- Media players
- GPS
- MP3 Players
- Wearable electronics
- Digital cameras

**FEATURES (Coilmaster)**

1. Magnetic shielding allows high-density mounting
2. Ultra-small shielded power inductor – only 1.2 mm high, 2.5x 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

# ML252012QS SERIES - High Current Power Inductors

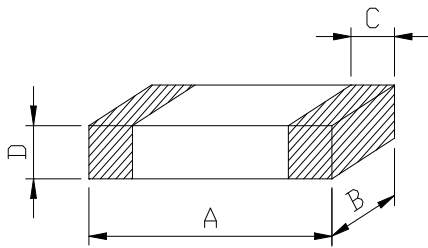


## PART NUMBERING SYSTEM

<u>ML</u>	<u>252012QS</u>	—	<u>1R0M</u>	—	<u>LF</u>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

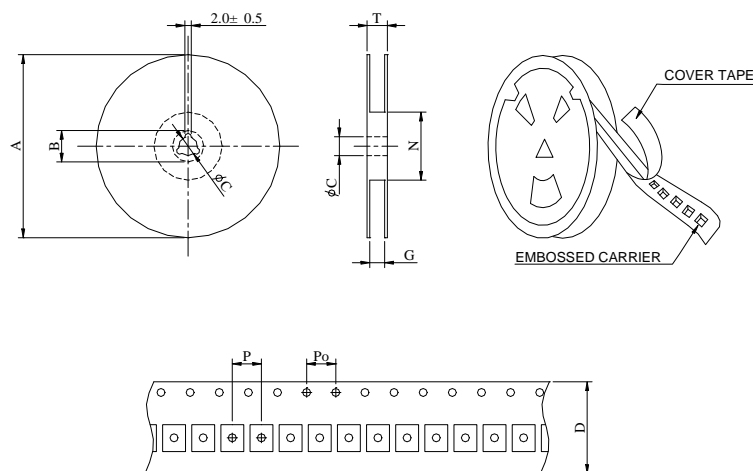
## SHAPES AND DIMENSIONS

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 <sup>+</sup>	N <sup>0</sup>	P	Po	T
ML252012QS	178	3,000	178	21	13	8	18	50	4	4	22.4



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## ML252012QS 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)
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

### 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