

# Miniature High Current Molded Inductors - ML252012EM

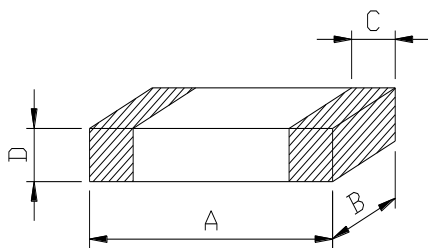


## PART NUMBERING SYSTEM

<b>ML</b>	<b>252012EM</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=0.85±0.3    D=1.2 Max.**

## 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 13.5 Amps**
4. Excellent mounting strength by SMD chip making
5. Operating Temperature Range : -40°C to +125°C
6. **Automotive grade available**
7. Halogen free and REACH / RoHS-compliant.
8. Excellent mounting strength by SMD chip making

## APPLICATIONS

Ideally used in smart phone, tablet PC,SSD, USB3.0 and other low profile high current application.



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### SPECIFICATION TABLE

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR (m $\Omega$ ) Max.	Isat(A) Typ.	Irms(A) Typ.	TEST FREQ. (MHz)
ML252012EM-R10M-LF	0.10 $\pm$ 20%	10.0	13.50	12.00	1MHz/1V
ML252012EM-R15M-LF	0.15 $\pm$ 20%	11.0	13.00	11.50	1MHz/1V
ML252012EM-R22M-LF	0.22 $\pm$ 20%	14.0	9.60	8.20	1MHz/1V
ML252012EM-R24M-LF	0.24 $\pm$ 20%	15.0	9.30	8.00	1MHz/1V
ML252012EM-R33M-LF	0.33 $\pm$ 20%	17.0	8.30	6.80	1MHz/1V
ML252012EM-R47M-LF	0.47 $\pm$ 20%	13.0	8.50	8.00	1MHz/1V
ML252012EM-R68M-LF	0.68 $\pm$ 20%	18.0	6.70	7.50	1MHz/1V
ML252012EM-R82M-LF	0.82 $\pm$ 20%	24.0	6.50	5.80	1MHz/1V
ML252012EM-1R0M-LF	1.00 $\pm$ 20%	22.0	6.50	5.20	1MHz/1V
ML252012EM-1R2M-LF	1.20 $\pm$ 20%	45.0	4.50	3.80	1MHz/1V
ML252012EM-1R5M-LF	1.50 $\pm$ 20%	32.0	4.70	4.60	1MHz/1V
ML252012EM-2R2M-LF	2.20 $\pm$ 20%	65.0	3.80	3.00	1MHz/1V
ML252012EM-3R3M-LF	3.30 $\pm$ 20%	97.0	3.00	2.30	1MHz/1V
ML252012EM-4R7M-LF	4.70 $\pm$ 20%	170.0	2.40	1.80	1MHz/1V
ML252012EM-6R8M-LF	6.80 $\pm$ 20%	270.0	2.00	1.60	1MHz/1V
ML252012EM-100M-LF	10.0 $\pm$ 20%	400.0	1.60	1.20	1MHz/1V

Isat means that DC current will cause a **30% inductance reduction** from initial value .

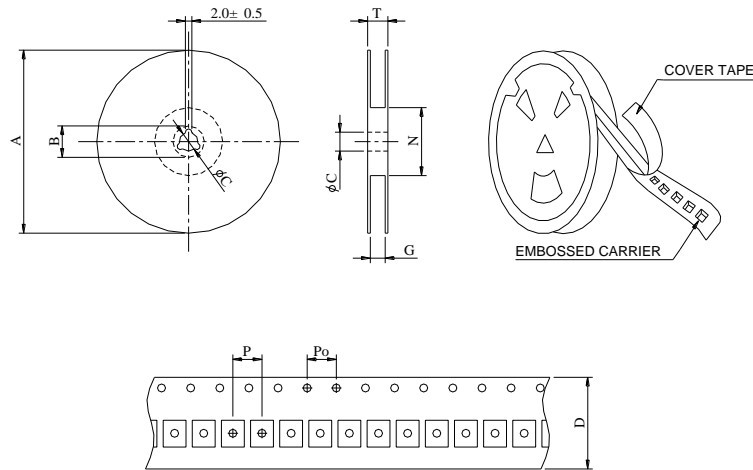
Irms means that DC current will cause **coil temperature rising to 40°C** whichever is smaller.

RoHS-compliant. 260°C compatible.



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## PACKAGING SPECIFICATION



SERIES	STAYLE	Q'TY (PCS)	DIMENSIONS (m/m)								
			A	B±0.8	C±0.5	D	G <sup>+0</sup>	N <sup>-0</sup>	P	Po	T
ML252012EM	178	3,000	178	21	13	8	18	50	4	4	22.4