

Miniature High Current Inductors ~ ML1007EM~1608EM

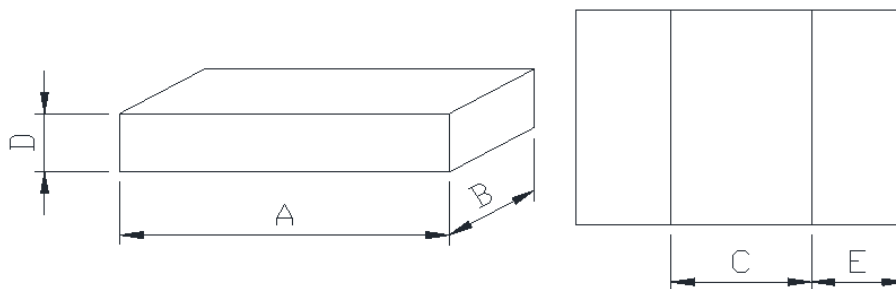


PART NUMBERING SYSTEM

ML	100706EM	—	4R7M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES AND DIMENSIONS

UNIT : mm



ML100706EM	: A= 1.0±0.2	B=0.7±0.2	C=0.4±0.2	D=0.65 Max.	E=0.3±0.2
ML121006EM	: A= 1.2±0.2	B=1.0±0.2	C=0.4±0.2	D=0.65 Max.	E=0.4±0.2
ML160806EM	: A= 1.6±0.2	B=0.8±0.2	C=0.6±0.2	D=0.65 Max.	E=0.5±0.2
ML160808EM	: A= 1.6±0.2	B=0.8±0.2	C=0.6±0.2	D=0.80 Max.	E=0.5±0.2

FEATURES

1. **Magnetic shielding** allows high-density mounting
2. **Ultra-small shielded power inductor** – the lowest height is **0.65 mm**
3. Handles **current up to 5.0 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.

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 (μ H)	DCR (m Ω) Max.	Isat(A) (Typ.)	Irms(A) (Typ.)	TEST FREQ. (MHz)
ML100706EM-1R5M-LF	1.50 \pm 20%	500.0	1.10	0.40	1MHz/1V
ML100706EM-2R6M-LF	2.60 \pm 20%	900.0	1.00	0.55	1MHz/1V
ML121006EM-2R2M-LF	2.20 \pm 20%	340.0	1.30	1.00	1MHz/1V
ML160806EM-R22M-LF	0.22 \pm 20%	43.0	5.00	4.00	1MHz/1V
ML160806EM-R47M-LF	0.47 \pm 20%	78.0	3.50	2.50	1MHz/1V
ML160806EM-1R0M-LF	1.00 \pm 20%	160.0	2.20	2.20	1MHz/1V
ML160806EM-2R2M-LF	2.20 \pm 20%	430.0	1.60	1.30	1MHz/1V
ML160808EM-R22M-LF	0.22 \pm 20%	40.0	5.5	3.4	1MHz/1V
ML160808EM-R47M-LF	0.47 \pm 20%	100.0	4.1	2.6	1MHz/1V
ML160808EM-R56M-LF	0.56 \pm 20%	110.0	4.0	2.2	1MHz/1V
ML160808EM-R68M-LF	0.68 \pm 20%	130.0	3.3	2.1	1MHz/1V
ML160808EM-1R0M-LF	1.0 \pm 20%	200.0	3.0	2.1	1MHz/1V
ML160808EM-1R5M-LF	1.5 \pm 20%	285.0	2.4	1.7	1MHz/1V
ML160808EM-2R2M-LF	2.2 \pm 20%	260.0	1.5	1.4	1MHz/1V
ML160808EM-3R3M-LF	3.3 \pm 20%	600.0	1.4	1.0	1MHz/1V
ML160808EM-4R7M-LF	4.7 \pm 20%	700.0	1.2	1.0	1MHz/1V
ML160808EM-100M-LF	10 \pm 20%	1600.0	0.8	0.5	1MHz/1V

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

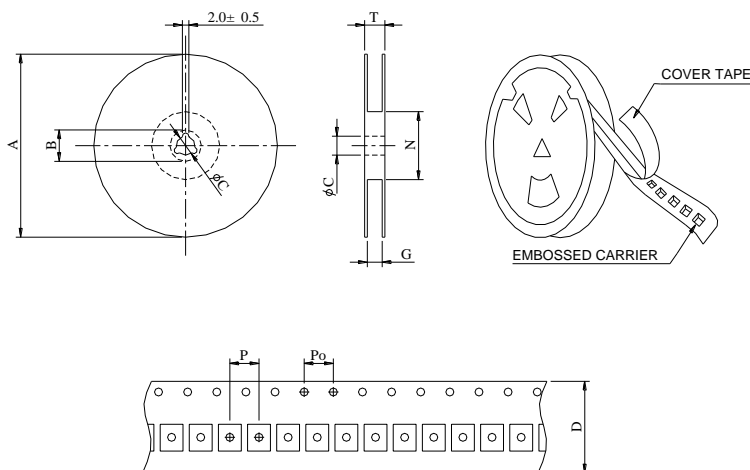
Irms means that DC current will cause **coil temperature rising to 40°C** whichever is smaller.

100% lead (Pb) free meet RoHS2.0 and Halogen, Reach and other legal and regulatory requirements standard.



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PACKAGING SPECIFICATION



SERIES	STAYLE	Q'TY (PCS)	DIMENSIONS (m/m)								
			A	B±0.8	C±0.5	D	G ⁺⁰	N ⁻⁰	P	Po	T
	178	5,000	178	20	13	8	-	60	4	4	-