

Electrical / Environmental

HM100

High Current Low Profile Surface Mount Inductors



NEW

RoHS
Compliant for
'LF' Models

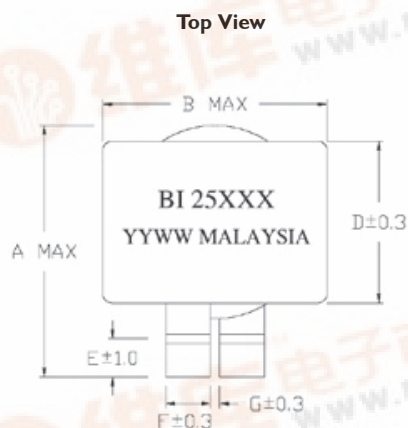
- Operating Temperature Range -40°C to +130°C
- Insulation System Class F, 155°C
- Ambient Temperature, Maximum 85°C

Specifications

Part Number	Inductance ⁽¹⁾ $\mu\text{H} \pm 20\%$	I _{rated} ⁽²⁾ Rated Current (A)		Heating Current ⁽³⁾ (A)	DC Resistance ⁽⁴⁾	
		25°C	130°C		mΩ Typ.	mΩ Max.
HM100-251R0	1.0	85	65	62	0.7	0.9
HM100-251R5	1.5	55	45	62	0.7	0.9
HM100-252R0	2.0	45	35	62	0.7	0.9

- Notes:
- (1) Inductance is measured at 100kHz, 0.1 Vac without DC current.
 - (2) The rated current (I_{rated}) is the approximate current at which inductance will be decreased by 20% from its initial (zero DC) value.
 - (3) Heating Current is the DC current which causes the inductor temperature to increase by approximately 40°C.
 - (4) DC resistance is measured at 25°C.

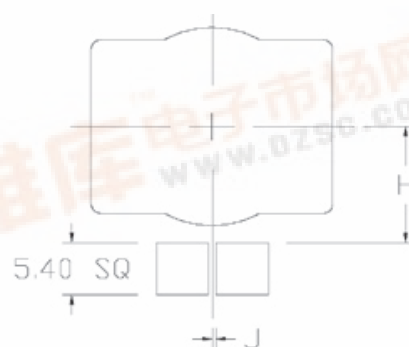
Outline Dimensions (mm)



Side View

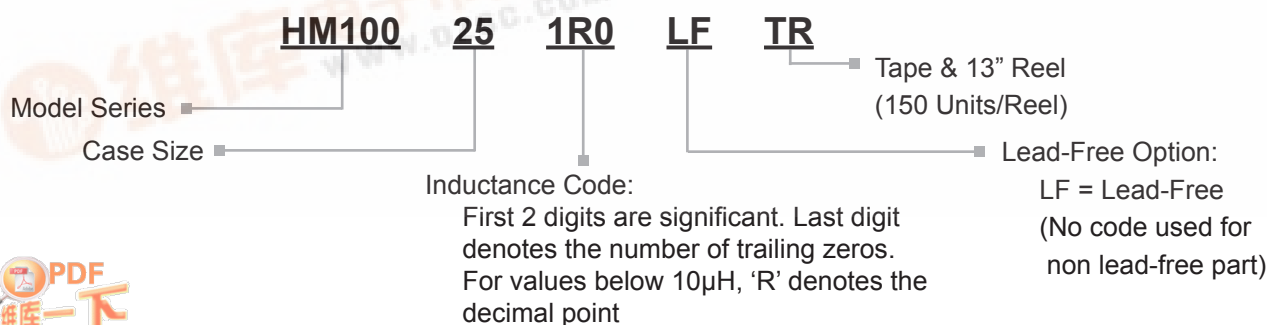


Recommended Solder Pad Layout



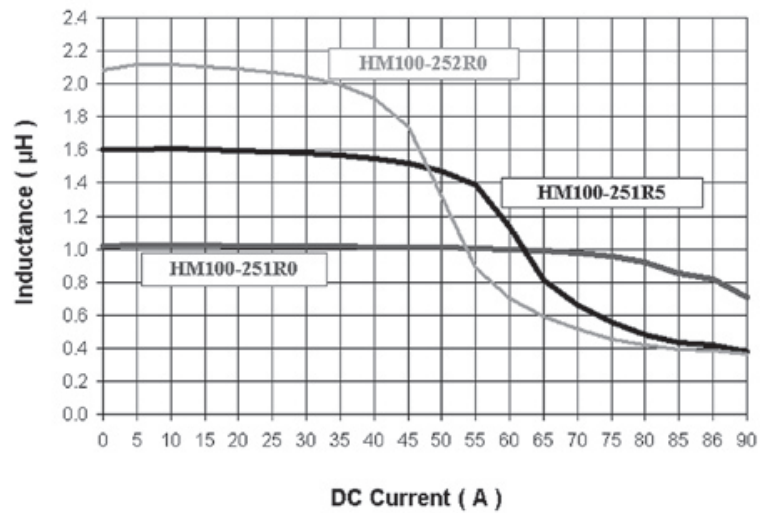
Case Size	A	B	C	D	E	F	G	H	J
25	28.0	25.5	8.8	18.0	3.8	5.0	1.0	12.0	0.4

Ordering Information



Electrical Characteristics @ 25 °C

Inductance vs. Current Characteristics



Q vs. Frequency Characteristics

