

MODEL HM65 SERIES

High Current

Low Profile

Surface Mount Inductors

NEW PRODUCT



FEATURES AND BENEFITS

- Closed magnetic circuit for high density board assembly
- High performance, low loss ferrite core is excellent for high frequency applications
- Low profile designed for machine placement
- Low DCR and high current up to 20 amps continuous
- Class F design is compatible with vapor phase and infrared reflow soldering
- Equivalent to Sumida CEP125 Series
- Custom designs available

APPLICATIONS

- Laptop and notebook computers
- DC/DC converters in distributed power systems
- Inductor for general purpose use

ELECTRICAL / ENVIRONMENTAL

Operating Temperature Range	-25°C to +135°C
Storage Temperature Range	-40°C to +85°C
Ambient Temperature, Maximum	80°C
Insulation System	Class F, 155°C

Specifications subject to change without notice.

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SPECIFICATIONS

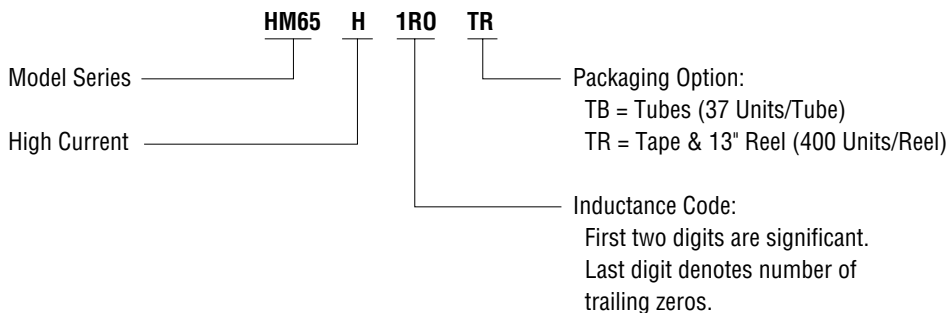
Part Number	Inductance ⁽¹⁾	Rated ⁽²⁾	DC	DC ⁽³⁾
	Nominal μH ±20%	DC Current Amps	Resistance mΩ Max.	Resistance mΩ Typ.
HM65-H1R0	1	20	2.5	2.3
HM65-H1R8	1.8	15.3	2.5	2.5
HM65-H2R8	2.8	12.3	5.4	3.4
HM65-H4R0	4.0	10.3	6.2	6.0
HM65-H5R6	5.6	8.8	11.4	8.7
HM65-H7R2	7.2	7.8	13.5	11.3
HM65-1R5	1.5	14.0	2.5	1.7
HM65-2R5	2.5	10.0	3.4	2.9
HM65-6R0	6.0	6.7	8.0	6.0
HM65-8R2	8.2	5.8	11.4	8.7
HM65-100	10.0	5.0	13.5	11.5

Notes: (1) Inductance measured at 100kHz, 0.25V without DC current.

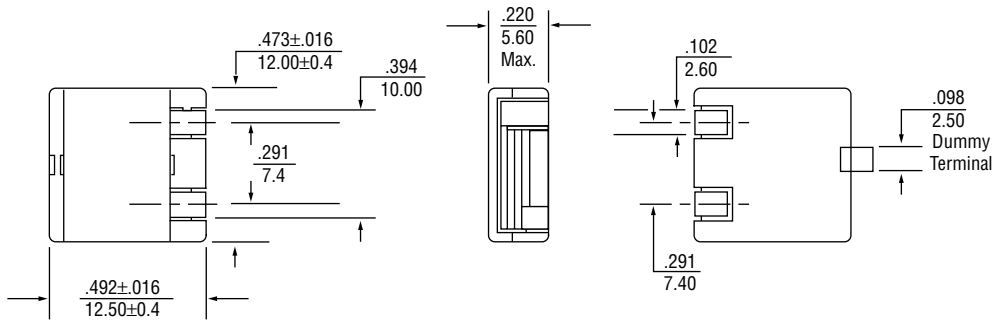
(2) Rated DC current is the approximate current at which inductance will be decreased by 10% from its initial (zero DC) value or the DC current at which $\Delta T = 50^{\circ}\text{C}$, whichever is lower.

(3) DC resistance measured at 20°C.

ORDERING INFORMATION



OUTLINE DIMENSIONS (Inch/mm)



Recommended Solder Pad Layout

