

# MODEL HM74 SERIES

High Frequency

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 up to 5 MHz
- Low profile designed for machine placement
- Low DCR and high current up to 27 amps continuous
- Class F design is compatible with vapor phase and infrared reflow soldering
- Custom designs available

## APPLICATIONS

- Laptop and notebook computers
- DC/DC converters in distributed power systems or VRM applications
- 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.

6

## SPECIFICATIONS

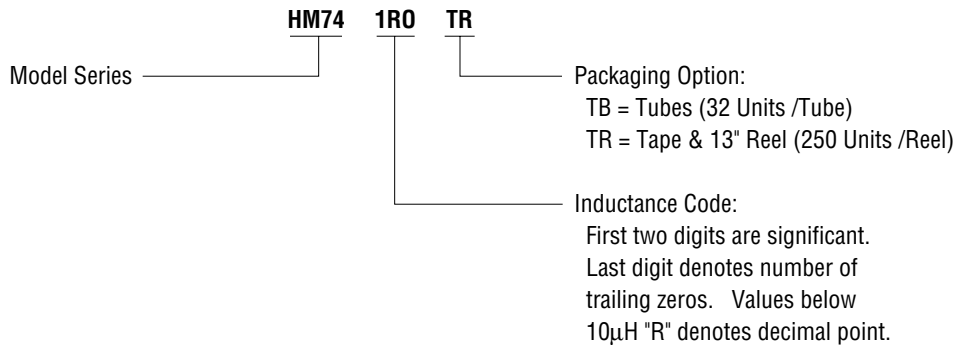
Part Number	Inductance <sup>(1)</sup>	Rated <sup>(2)</sup>	DC	DC <sup>(3)</sup>
	Nominal μH ±20%	DC Current Amps	Resistance mΩ Max.	Resistance mΩ Typ.
HM74-R47	0.47	26.0	1.1	0.9
HM74-R85	0.85	19.0	2.1	1.8
HM74-1R4	1.40	14.5	3.6	3.0
HM74-2R1	2.10	12.5	4.4	3.7
HM74-3R0	3.00	8.0	11.9	9.9
HM74-4R0	4.00	7.5	13.7	11.4
HM74-5R1	5.10	7.0	15.5	12.9
HM74-6R3	6.30	6.5	17.2	14.3

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 20% 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)**

