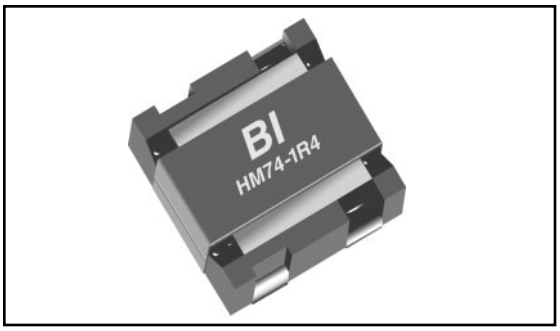
MODEL HM74 SERIES

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.

SPECIFICATIONS

Part Number	Inductance (1) Nominal µH ±20%	Rated (2) DC Current Amps	DC Resistance mΩ Max.	DC (3) 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 $\Delta T = 50°C$, whichever is lower.

(3) DC resistance measured at 20°C.

ORDERING INFORMATION

HM74 1R0 TR

Model Series

Packaging Option:
TB = Tubes (32 Units /Tube)
TR = Tape & 13" Reel (250 Units /Reel)

Inductance Code:
First two digits are significant.
Last digit denotes number of trailing zeros. Values below 10µH "R" denotes decimal point.

OUTLINE DIMENSIONS (Inch/mm)

