

Power Inductor

Flat Wire Type 27.9x26.9mm

PIH-75 Series

MERITEK

FEATURE

- Closed Magnetic Field Construction for High Density Board Assembly
- Low DCR with Flat Wire Design
- High Power and High Saturation Current
- Application: DC/DC Converter in Power Regulation System, PV Inverters



ELECTRICAL CHARACTERISTICS (L TYPE)

Part Number	Inductance (μH)	Test Frequency (Hz)	DCR Typ. (mΩ)	DCR Max. (mΩ)	Isat Max. (A)	Irms Max. (A)
PIH1R5M2614L75	1.5 ±20% (M)	0.1V/500K	1.50	1.65	100.0	30.0
PIH2R2M2614L75	2.2 ±20% (M)	0.1V/500K	1.50	1.65	82.0	30.0
PIH3R3M2614L75	3.3 ±20% (M)	0.1V/500K	1.50	1.65	48.0	30.0
PIH4R7M2614L75	4.7 ±20% (M)	0.1V/500K	1.50	1.65	33.0	30.0
PIH6R8M2614L75	6.8 ±20% (M)	0.1V/500K	1.50	1.65	22.0	30.0
PIH100K2614L75	10.0 ±10% (K)	0.1V/500K	1.50	1.65	13.0	30.0
PIH150K2614L75	15.0 ±10% (K)	0.1V/500K	1.50	1.65	7.5	30.0
PIH220K2614L75	22.0 ±10% (K)	0.1V/500K	1.50	1.65	4.5	30.0
PIH330K2614L75	33.0 ±10% (K)	0.1V/500K	1.50	1.65	2.0	30.0

ELECTRICAL CHARACTERISTICS (H TYPE)

Part Number	Inductance (μH)	Test Frequency (Hz)	DCR Typ. (mΩ)	DCR Max. (mΩ)	Isat Max. (A)	Irms Max. (A)
PIH2R2M2614H75	2.2 ±20% (M)	1V/500K	1.86	2.05	100.0	30.0
PIH3R3M2614H75	3.3 ±20% (M)	1V/500K	1.86	2.05	62.0	30.0
PIH4R7M2614H75	4.7 ±20% (M)	1V/500K	1.86	2.05	42.0	30.0
PIH6R8M2614H75	6.8 ±20% (M)	1V/500K	1.86	2.05	30.0	30.0
PIH100K2614H75	10.0 ±10% (K)	1V/500K	1.86	2.05	18.0	30.0
PIH150K2614H75	15.0 ±10% (K)	1V/500K	1.86	2.05	11.5	30.0
PIH220K2614H75	22.0 ±10% (K)	1V/500K	1.86	2.05	7.0	30.0
PIH330K2614H75	33.0 ±10% (K)	1V/500K	1.86	2.05	4.0	30.0

Notes:

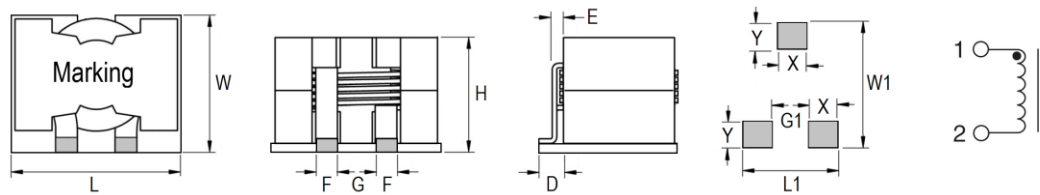
1. All test data referenced to 25°C ambient.
2. The saturation current indicates the value of DC current is approximately 10% (M: 20%) lower than its initial value of inductance.
3. ΔT=40°C approximately under the temperature rise current
4. Operation temperature range -40°C ~ 105°C

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DIMENSIONS



Unit: mm

Size Code	L Max	W Max	H Max	D Ref	E Ref	F Ref	G Ref	L1	W1	X	Y	G1
2614	27.9	26.9	15.9	6.5	3.8	4.0	6.1	14.9	26.9	4.7	5.25	5.5

PART NUMBERING SYSTEM

PIH 100K 2614H 75
(1) (2) (3) (4)

No.	Item	Code	Description	
(1)	Product Code	PIH	Power Inductor Series, Flat Wire Type	
(2)	Inductance	100K	100: 10μH ±10% (K)	First two digits: Significant, Third: Multiplier
(3)	Size Code	2614H	27.9 x 15.9mm, L x T (mm)	See Dimension Table
(4)	Series Code	75	SMD 3T High Current Series, Internal control or project reference	