

Power Inductor

Flat Wire Type 12.4x13.0mm

PIF-12567R Series

MERITEK

FEATURE

- Superior Quality for an Automotive Product Line
- Pick and Place Compatible
- Tape and Peel Packing
- Compliant with RoHS and Halogen Free
- Application: Converter in Power Regulation System, Routers, and VGA Card



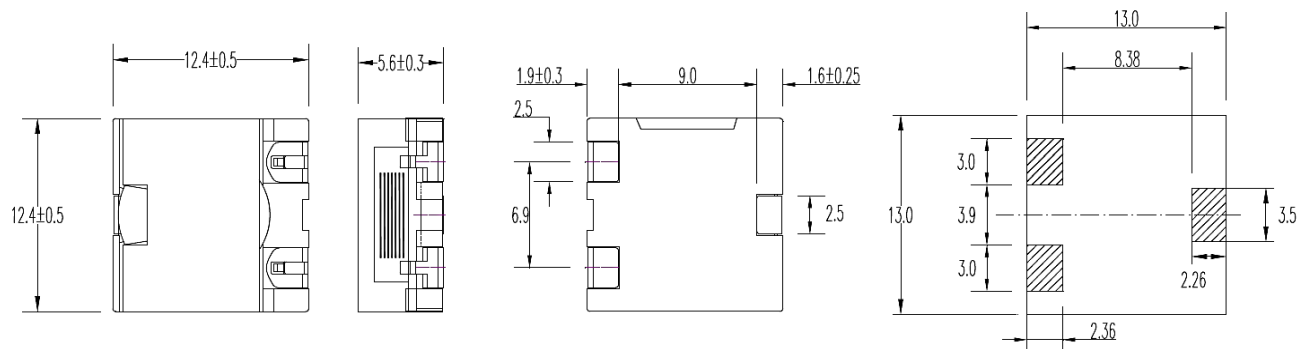
ELECTRICAL CHARACTERISTICS

Part Number	Inductance $\pm 20\%$ (μH)	DCR $\pm 10\%$ ($\text{m}\Omega$)	Inductance TYP (μH)	Temperature Rise Current (A)	Saturation Current (A)
PIFR50M12567R	0.5	0.72	0.47	30.0	37.0
PIF1R0M12567R	1.0	1.80	0.94	22.0	28.0
PIF1R8M12567R	1.8	2.63	1.62	17.0	21.0
PIF2R2M12567R	2.2	2.63	1.70	17.0	18.0
PIF3R3M12567R	3.3	4.40	2.80	13.5	15.0
PIF4R7M12567R	4.7	6.30	3.80	11.5	12.5
PIF5R6M12567R	5.6	9.00	5.10	9.0	12.0
PIF6R8M12567R	6.8	11.00	6.40	8.3	11.0
PIF7R2M12567R	7.2	11.00	6.60	7.6	7.8
PIF8R0M12567R	8.0	9.00	7.80	7.6	9.0
PIF100M12567R	10.0	17.80	9.30	6.3	8.5
PIF120M12567R	12.0	18.00	11.00	6.3	8.3

Note:

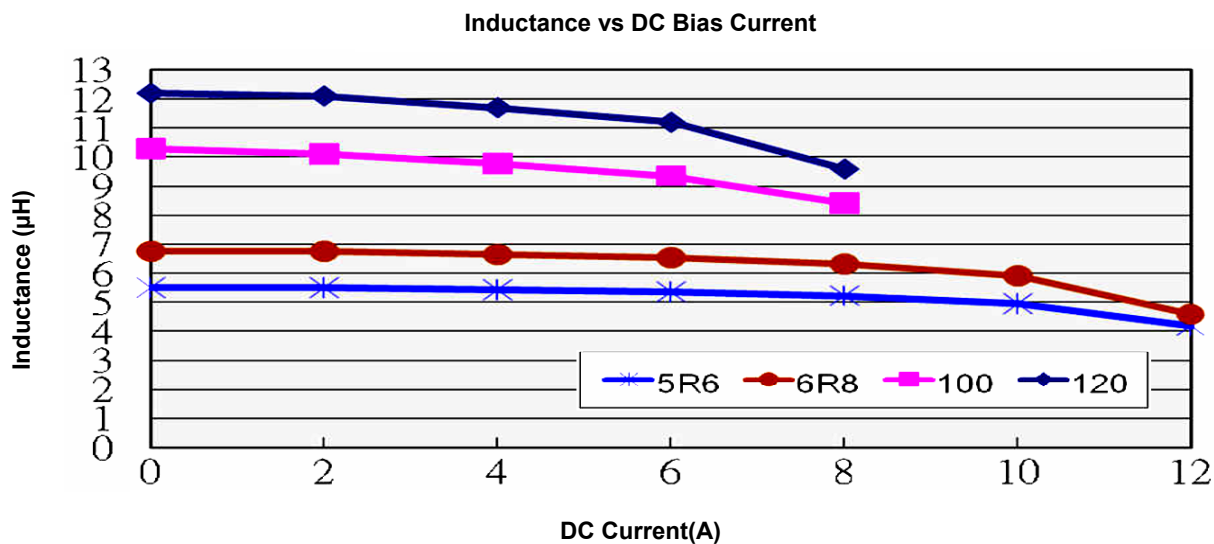
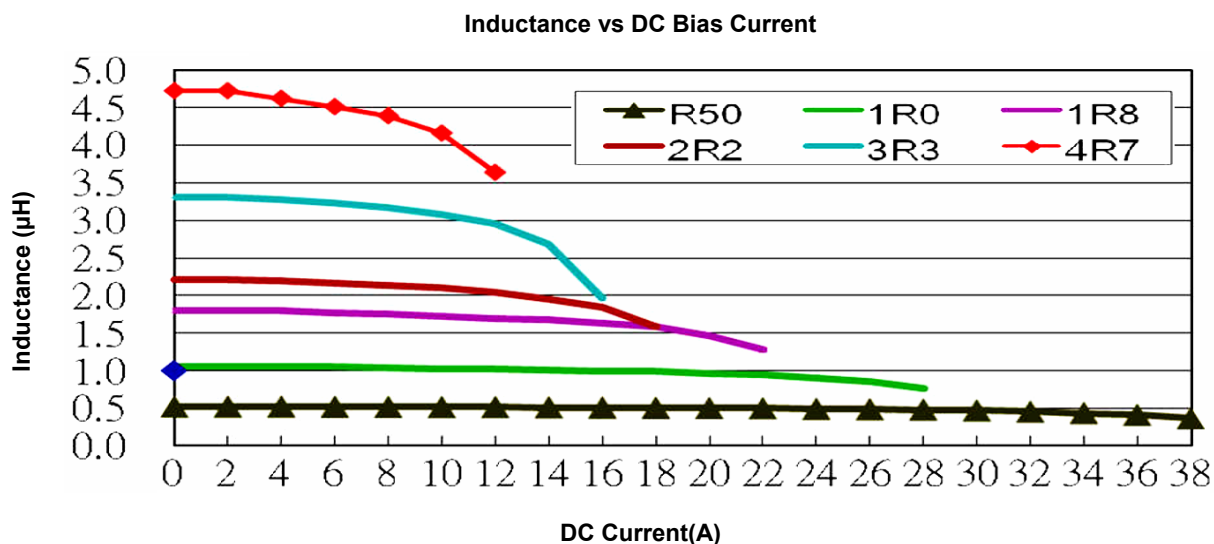
1. Test frequency: 100 KHZ, 1Vrms.
2. $\Delta T=40^\circ\text{C}$ approximately under the temperature rise current
3. The saturation current indicates the value of DC current is approximately 20% lower than its initial value of inductance.
4. Operation temperature range $-40^\circ\text{C} \sim 125^\circ\text{C}$
5. Storage time: The recommended storage time of inductor is maximum 12 months, and don't suggest to use the parts over 12 months.

DIMENSIONS



Unit: mm

CHARACTERISTICS CURVE



PART NUMBERING SYSTEM

PIF R50M 1256 7R
 (1) (2) (3) (4)

No	Item	Code	Description
(1)	Product Code	PIF	Power Inductor Series, Flat Wire type
(2)	Inductance	R50M	R50: 0.50µH ± 20% (M) 1R2: 1.2µH, 2R0: 2.0µH
(3)	Size Code	1256	12.4 x 5.6mm L x T (mm)
(4)	Series Code	7R	SMD 3T High Current Series

*Specifications subject to change without notice.