

Power Inductor

Flat Wire Type 10.2x11.0mm

PIF-10507R 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: Notebook Computer, Motherboard, Routers, and Serve



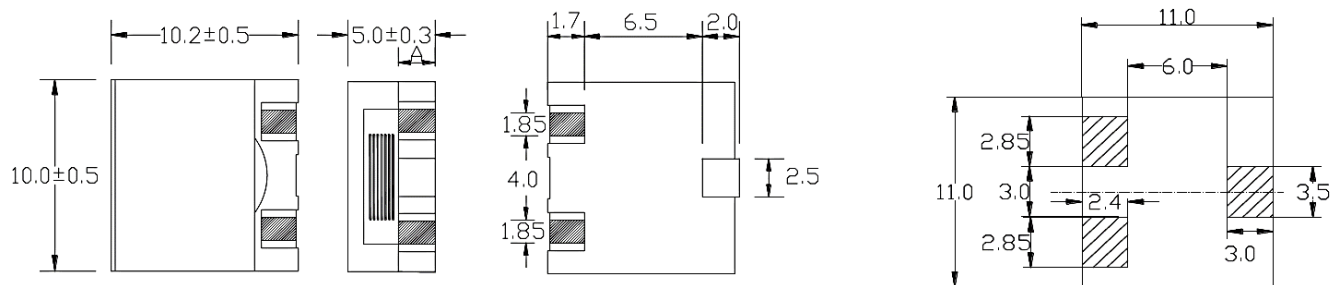
ELECTRICAL CHARACTERISTICS

Part Number	Inductance ±20% (μ H)	DCR ±10% (m Ω)	Inductance TYP (μ H)	Temperature Rise Current (A)	Saturation Current (A)
PIFR56M10507R	0.56	1.05	0.50	22.5	23.5
PIFR82M10507R	0.82	2.00	0.78	20.0	22.0
PIF1R0M10507R	1.00	2.00	0.53	19.0	18.0
PIF1R5M10507R	1.50	3.50	1.36	13.0	16.0
PIF1R9M10507R	1.90	5.10	1.85	12.5	14.5
PIF2R7M10507R	2.70	6.90	2.50	10.0	12.0
PIF3R3M10507R	3.30	8.90	3.40	9.0	11.0
PIF4R7M10507R	4.70	12.00	4.50	7.5	8.5
PIF5R6M10507R	5.60	13.00	5.20	7.0	7.5
PIF6R8M10507R	6.80	15.60	6.30	6.8	7.5
PIF8R2M10507R	8.20	25.00	8.00	4.8	6.2

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 30% lower than its initial value of inductance.
4. Operation temperature range $-40^{\circ}\text{C} \sim 150^{\circ}\text{C}$

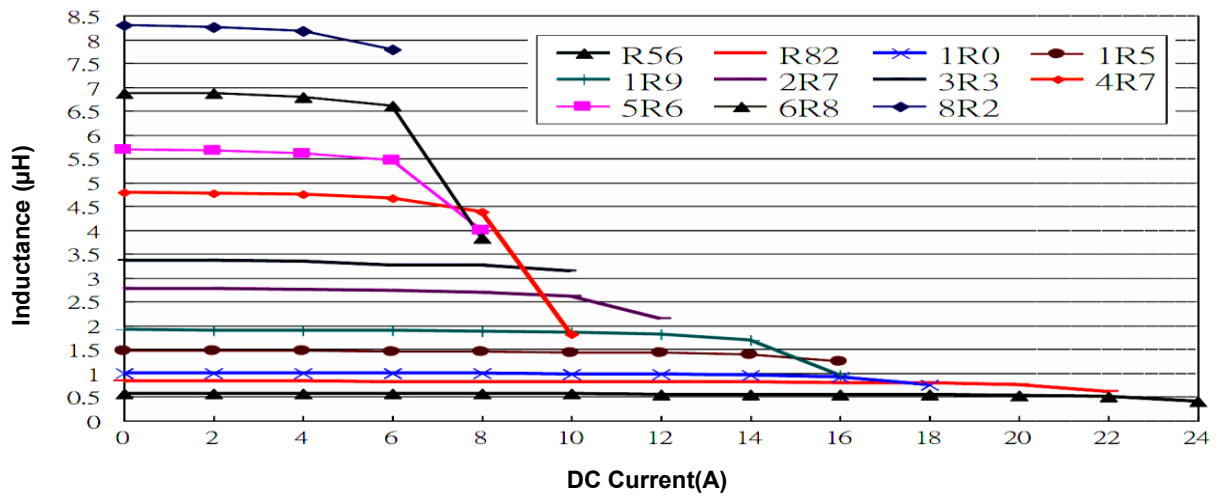
DIMENSIONS



Unit: mm

CHARACTERISTICS CURVE

Inductance vs DC Bias Current



PART NUMBERING SYSTEM

PIF R56M 1050 7R
 (1) (2) (3) (4)

No	Item	Code	Description
(1)	Product Code	PIF	Power Inductor Series, Flat Wire type
(2)	Inductance	R56M	R56: 0.56µH ± 20% (M) 1R2: 1.2µH, 2R0: 2.0µH
(3)	Size Code	1050	10.2 x 5.0mm L x T (mm)
(4)	Series Code	7R	SMD 3T High Current Series

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*Specifications subject to change without notice.