

# Power Inductor

## Flat Wire Type 10.2x11.0mm

PIF-10457R 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. DC/DC Converter



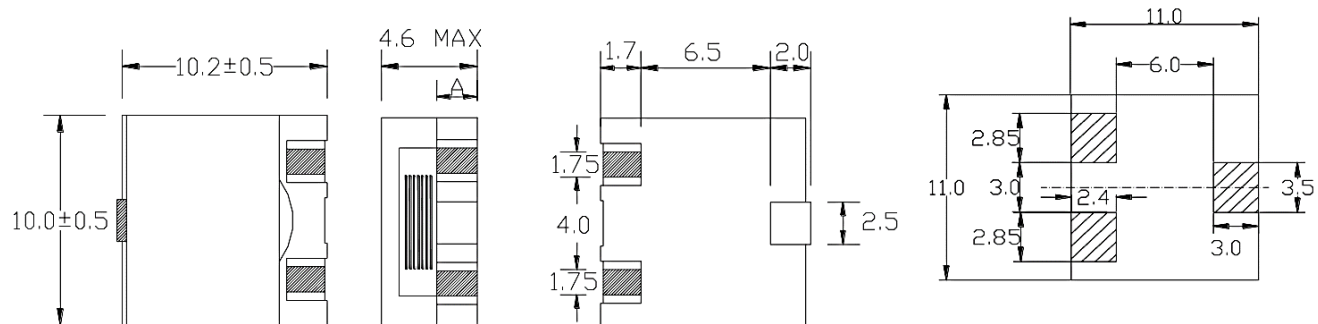
### ELECTRICAL CHARACTERISTICS

Part Number	Inductance $\pm 10\%$ ( $\mu\text{H}$ )	DCR Max ( $\text{m}\Omega$ )	Inductance TYP at Rated Current ( $\mu\text{H}$ )	Rated Current (ADC)
PIF1R0K10457R	1.0	3.6	0.84	14.5
PIF1R5K10457R	1.5	3.6	1.35	11.0
PIF2R0K10457R	2.0	5.3	1.70	10.0
PIF3R3K10457R	3.3	10.5	2.80	8.6
PIF4R7K10457R	4.7	15.2	4.30	7.0

Note:

1. Test frequency: 100KHZ, 1Vrms.
2.  $\Delta T=40^\circ\text{C}$  approximately under the temperature rise current
3. Operation temperature range  $-40^\circ\text{C} \sim 150^\circ\text{C}$

### DIMENSIONS



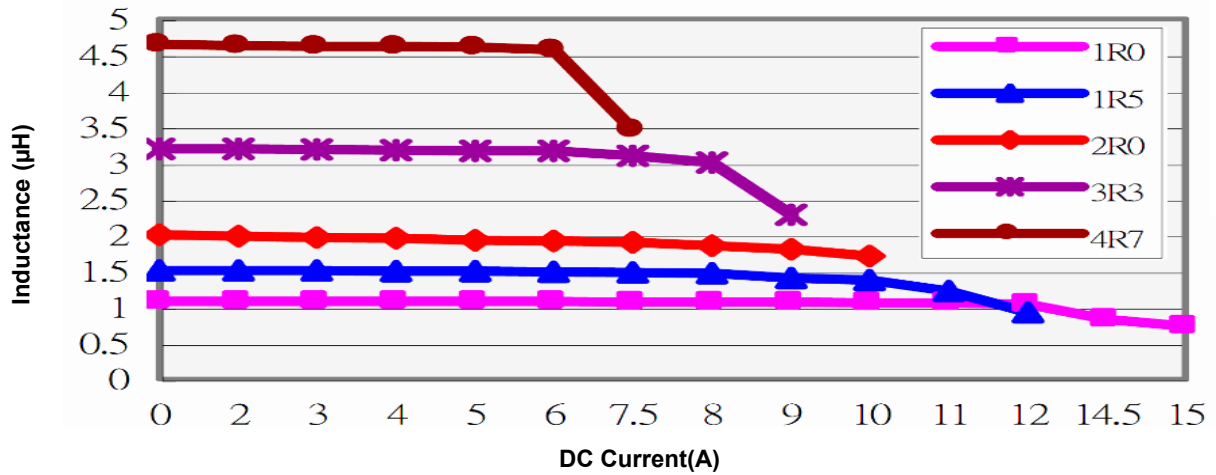
Unit: mm

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**CHARACTERISTICS CURVE**

Inductance vs DC Bias Current



**PART NUMBERING SYSTEM**

PIF    1R0K    1045    7R  
 (1)        (2)        (3)        (4)

No	Item	Code	Description	
(1)	Product Code	PIF	Power Inductor Series, Flat Wire type	
(2)	Inductance	1R0K	1R0: 1.0uH ± 10%	1R2: 1.2uH, 2R0: 2.0uH
(3)	Size Code	1045	10.2 x 4.6mm	L x T (mm)
(4)	Series Code	7R	SMD 3T High Current Series	

\*Specifications subject to change without notice.