

# Power Inductor

## Flat Wire Type 19.2x18.7mm

PIF-19xx7S Series

**MERITEK**

### FEATURE

- Low Core Loss and High Efficiency Performance
- Closed Magnetic Field Construction For High Density Board Assembly.
- Compliant With Rohs and Halogen Free.
- Application: DC/DC Converter In Power Regulation System.



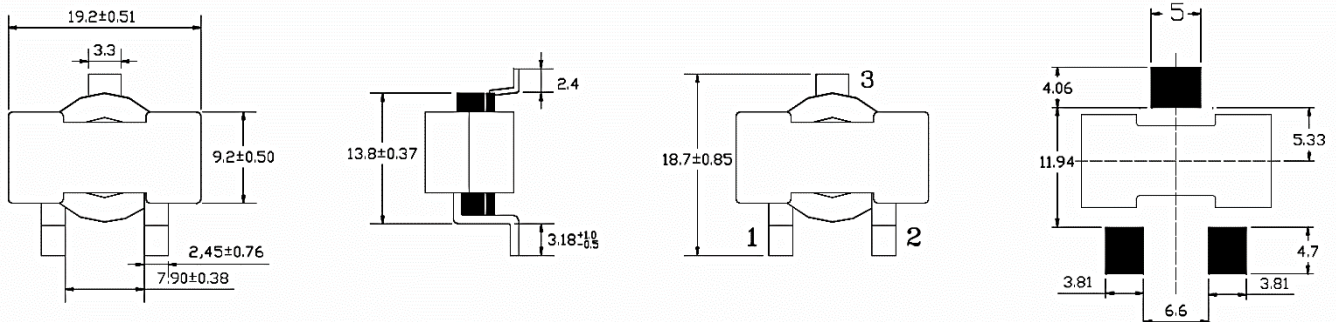
### ELECTRICAL CHARACTERISTICS

Part Number	Inductance ±20% (μH)	DCR ±10% (mΩ)	Temperature Rise Current (A)	Saturation Current (A)	Total Height Max (mm)
PIFR30M19867S	0.30	0.67	45	100	8.64
PIFR50M19867S	0.50	0.67	45	60	8.64
PIFR60M19867S	0.60	0.67	45	49	8.64
PIFR68M19867S	0.68	0.67	45	45	8.64
PIFR80M19867S	0.80	0.67	45	38	8.64
PIFR90M19867S	0.90	0.67	45	33	8.64
PIF1R0M19867S	1.00	0.67	45	29	8.64
PIF1R2M19867S	1.20	0.67	45	27	8.64
PIF2R0M19867S	2.00	0.67	45	15	8.64
PIFR30M19947S	0.30	0.90	45	100	9.40
PIFR50M19947S	0.50	0.90	45	81	9.40
PIFR60M19947S	0.60	0.90	45	70	9.40
PIFR68M19947S	0.68	0.90	45	62	9.40
PIFR80M19947S	0.80	0.90	45	53	9.40
PIFR90M19947S	0.90	0.90	45	48	9.40
PIF1R0M19947S	1.00	0.90	45	42	9.40
PIF1R2M19947S	1.20	0.90	45	37	9.40
PIF2R0M19947S	2.00	0.90	45	27	9.40

Note:

1. Test frequency: 100 KHZ, 0.1Vrms.
2. ΔT=40°C approximately under the temperature rise current
3. The saturation current indicates the value of DC current is approximately 15% lower than its initial value of inductance.
4. Operation temperature range -40°C ~ 150°C

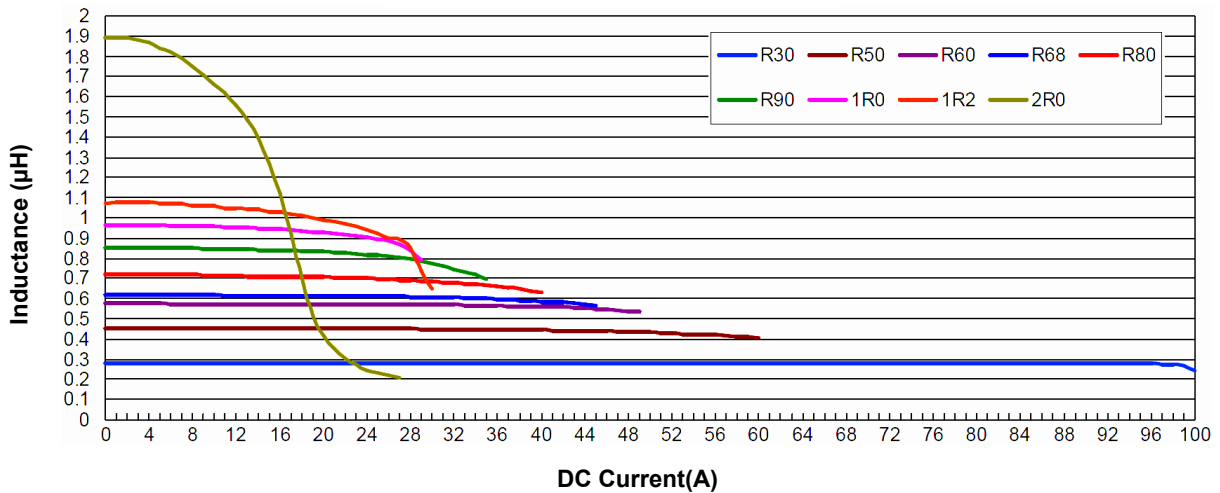
### DIMENSIONS



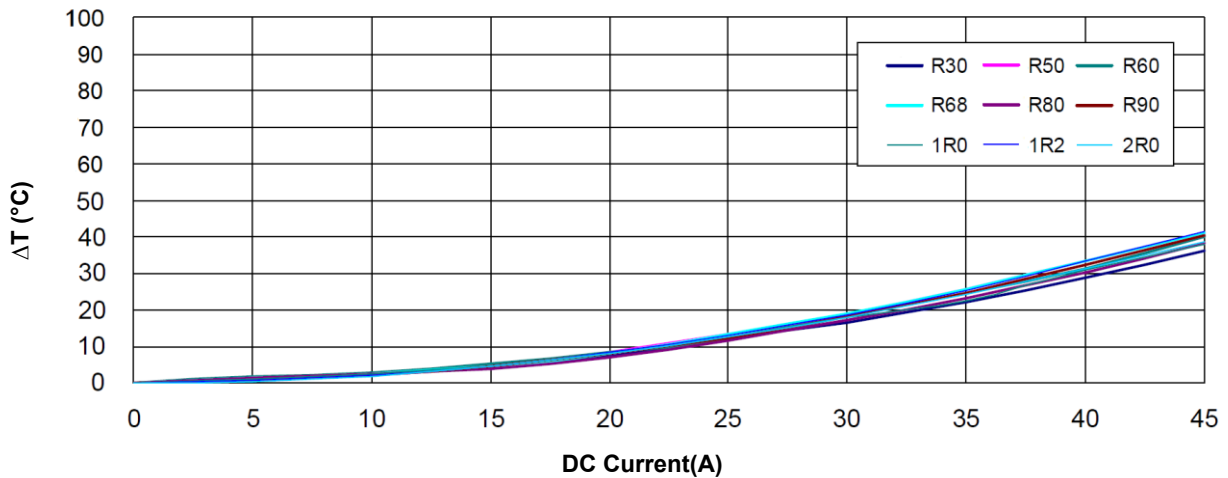
Unit: mm

**CHARACTERISTICS CURVE**

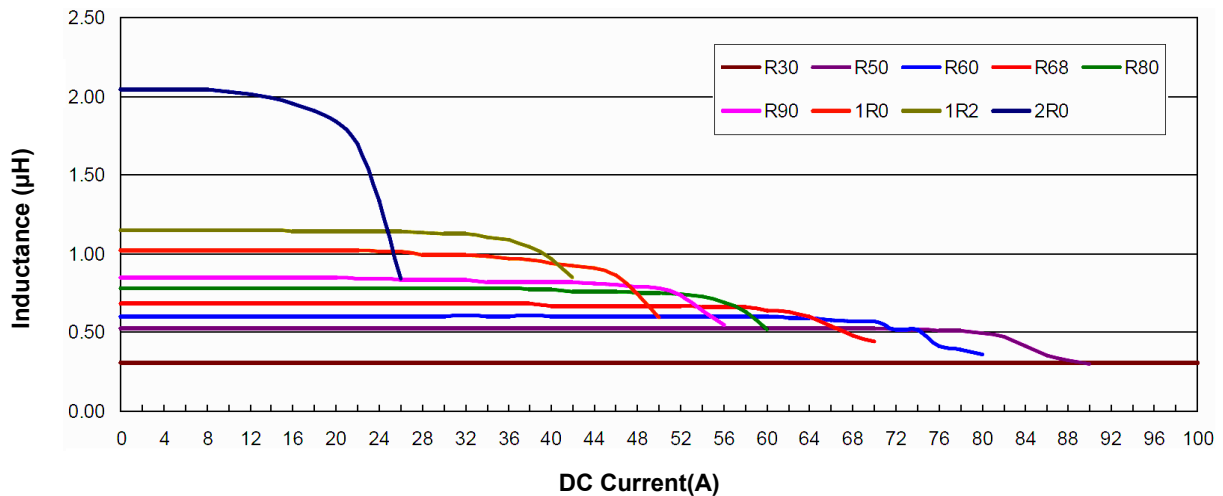
Inductance vs DC Bias Current - PIF-19867S series



Temperature Rise vs DC Bias - PIF-19867S series



Inductance vs DC Bias Current - PIF-19947S series



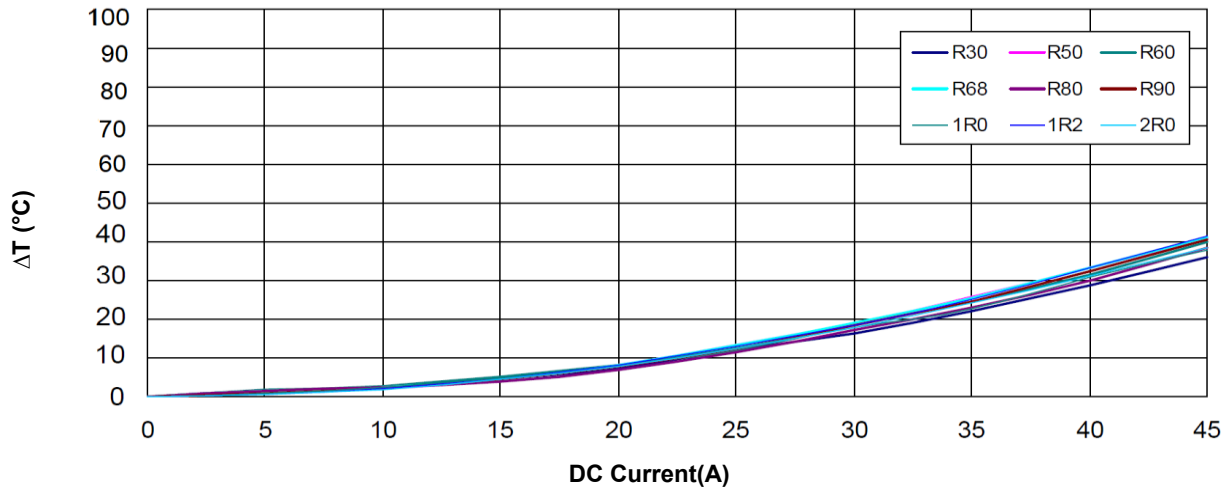
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**CHARACTERISTICS CURVE**

Temperature Rise vs DC Bias - PIF-19947S series



**PART NUMBERING SYSTEM**

PIF    R30M    1986    7S  
 (1)        (2)        (3)        (4)

No	Item	Code	Description	
(1)	Product Code	PIF	Power Inductor Series, Flat Wire Type	
(2)	Inductance	R30	R30: 0.3uH	R50: 0.5uH, 1R2: 1.2uH
(3)	Size Code	1986	19.2 x 8.64mm, L x T (mm)	1994: 19.2 x 9.4mm
(4)	Series Code	7S	SMD 3T High Current Series	

\*Specifications subject to change without notice.