

Power Inductor

Flat Wire Type 19.2x18.7mm

PIF-191x7S 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)
PIFR50M19107S	0.50	1.22	40	100	10.67
PIFR60M19107S	0.60	1.22	40	90	10.67
PIFR68M19107S	0.68	1.22	40	78	10.67
PIFR80M19107S	0.80	1.22	40	70	10.67
PIFR90M19107S	0.90	1.22	40	62	10.67
PIF1R0M19107S	1.00	1.22	40	56	10.67
PIF1R2M19107S	1.20	1.22	40	49	10.67
PIF2R0M19107S	2.00	1.22	40	37	10.67
PIFR60M19127S	0.60	1.45	35	97	11.94
PIFR68M19127S	0.68	1.45	35	85	11.94
PIFR80M19127S	0.80	1.45	35	75	11.94
PIFR90M19127S	0.90	1.45	35	69	11.94
PIF1R0M19127S	1.00	1.45	35	64	11.94
PIF1R2M19127S	1.20	1.45	35	54	11.94
PIF2R0M19127S	2.00	1.45	35	35	11.94
PIFR68M19137S	0.68	1.70	30	98	12.95
PIFR80M19137S	0.80	1.70	30	85	12.95
PIFR90M19137S	0.90	1.70	30	73	12.95
PIF1R0M19137S	1.00	1.70	30	68	12.95
PIF1R2M19137S	1.20	1.70	30	58	12.95
PIF2R0M19137S	2.00	1.70	30	40	12.95
PIF3R6M19137S	3.60	1.70	30	25	12.95
PIF4R0M19137S	4.00	1.70	30	20	12.95
PIF4R7M19137S	4.70	1.70	30	18	12.95
PIFR80M19147S	0.80	1.95	27	98	13.97
PIFR90M19147S	0.90	1.95	27	87	13.97
PIF1R0M19147S	1.00	1.95	27	70	13.97
PIF1R2M19147S	1.20	1.95	27	63	13.97
PIF2R0M19147S	2.00	1.95	27	45	13.97
PIF4R0M19147S	4.00	1.95	27	25	13.97

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

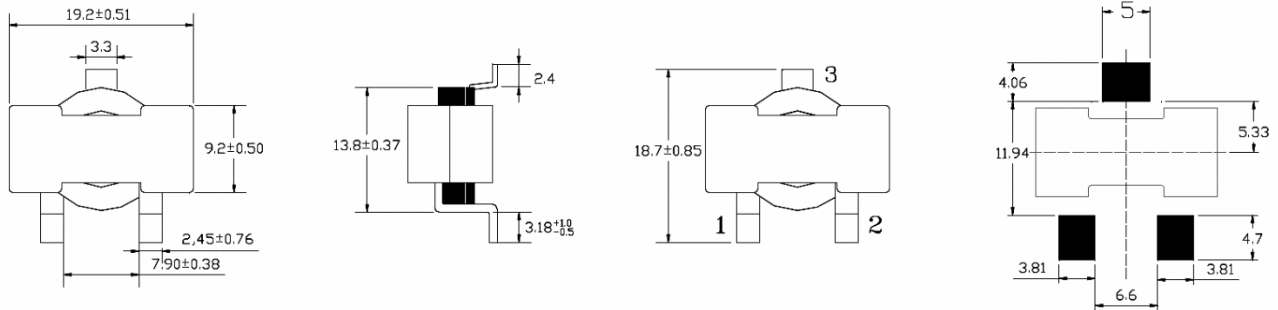
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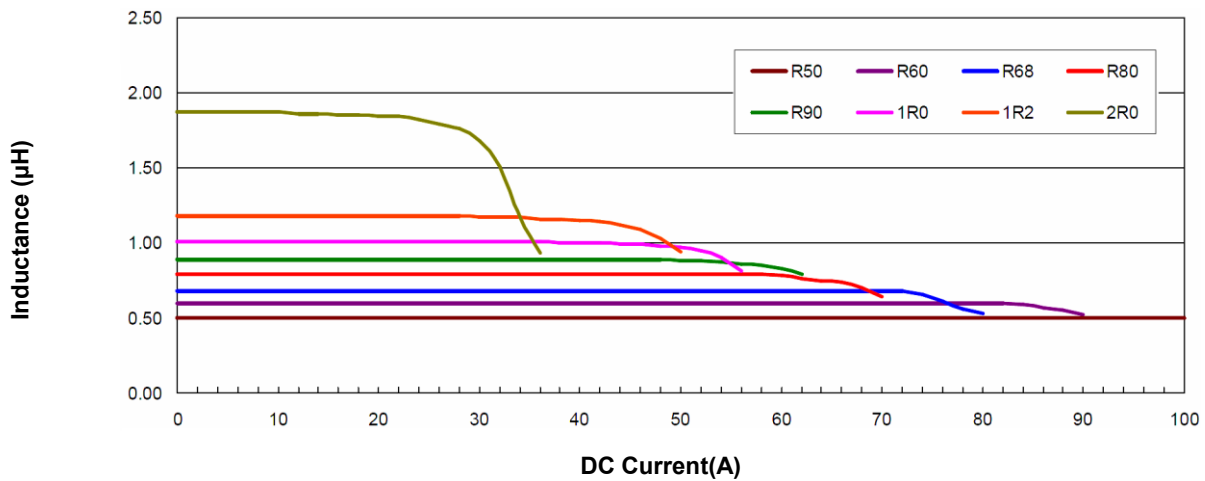
DIMENSIONS



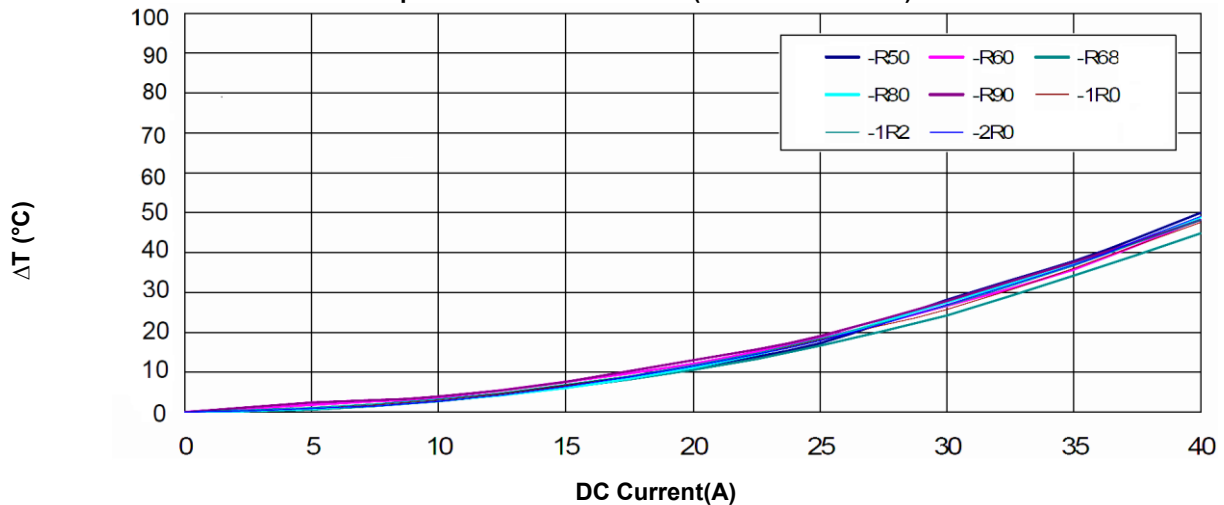
Unit: mm

CHARACTERISTICS CURVE

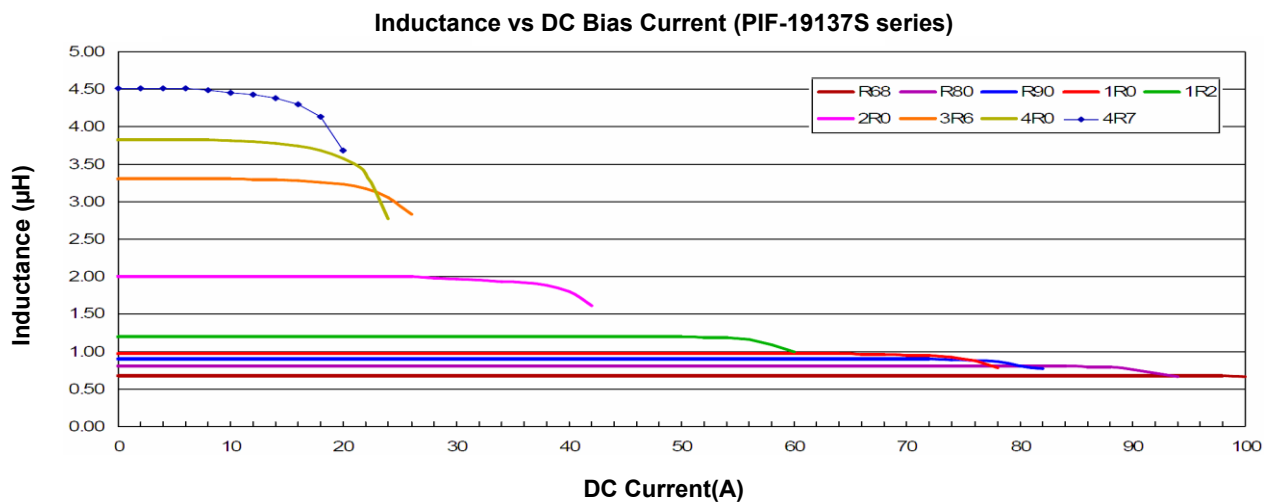
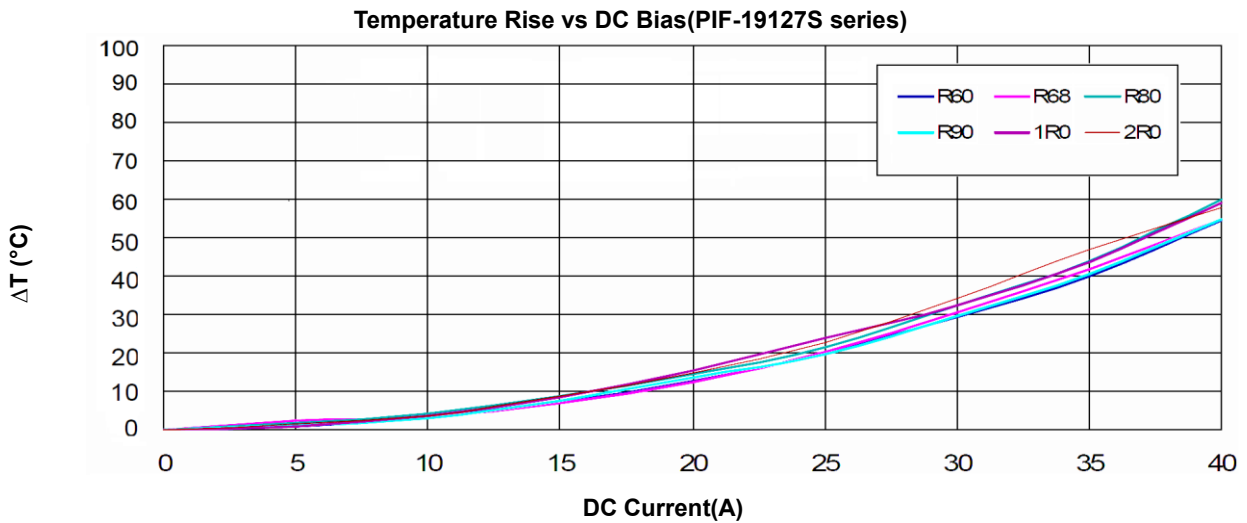
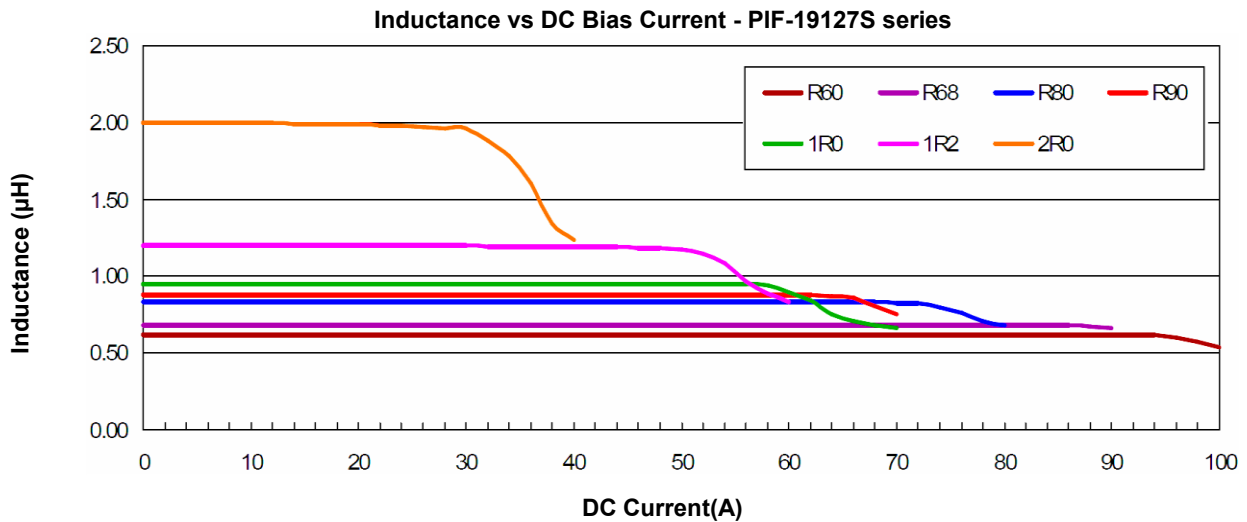
Inductance vs DC Bias Current (PIF-19107S series)



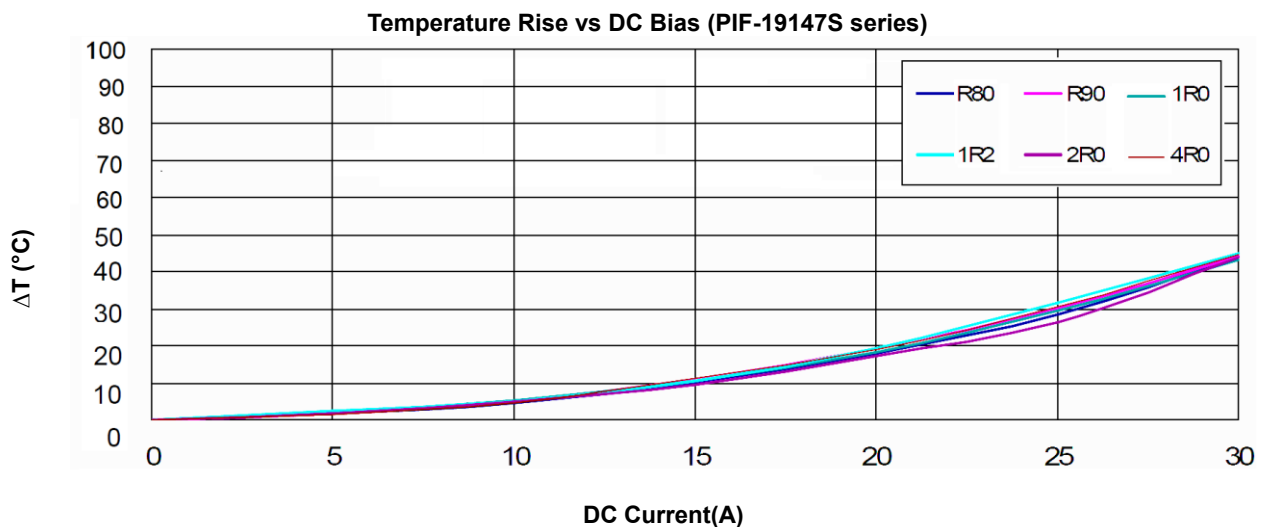
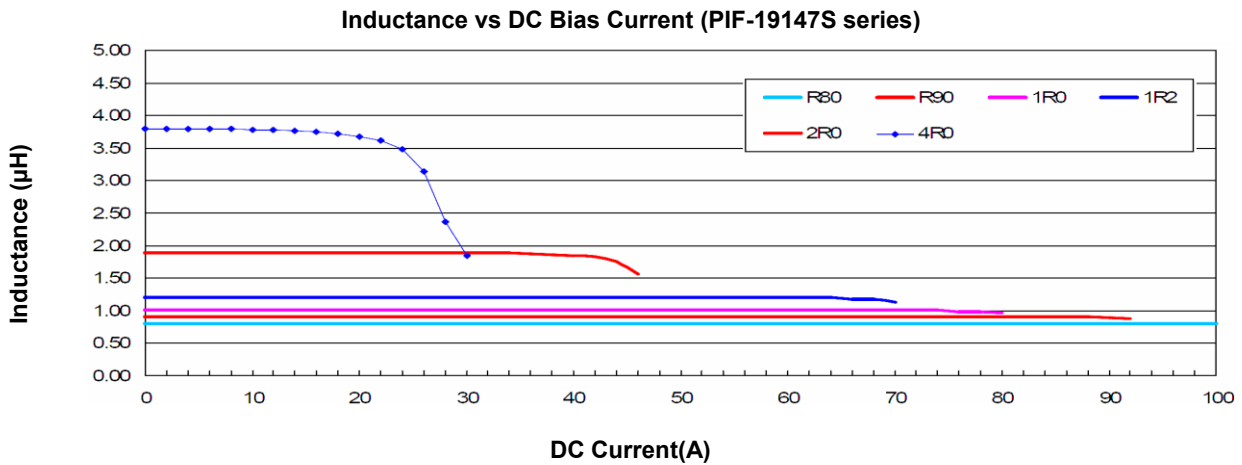
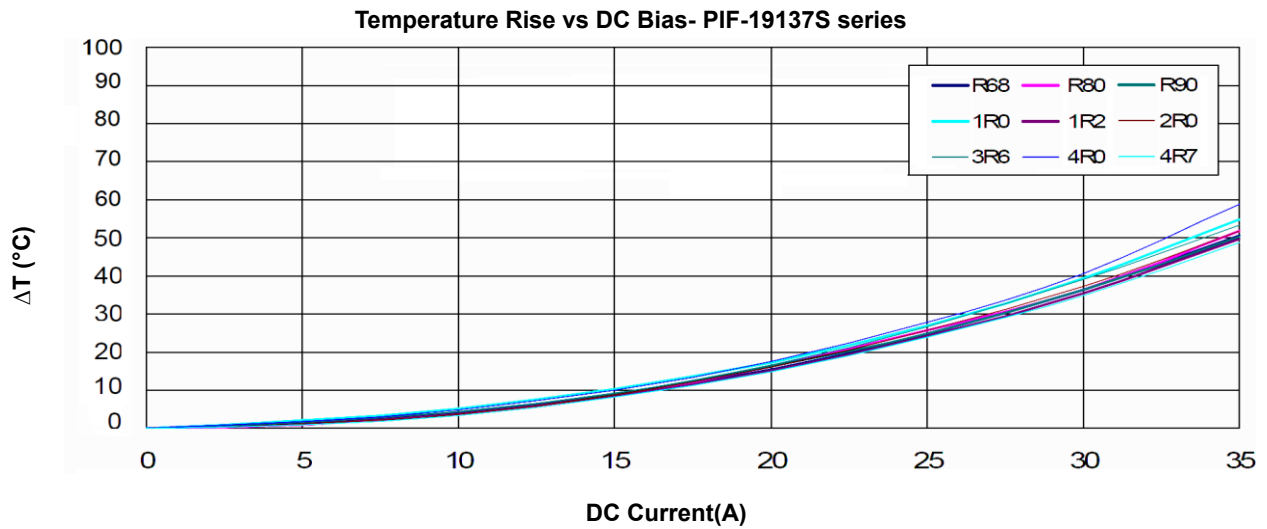
Temperature Rise vs DC Bias (PIF-19107S series)



CHARACTERISTICS CURVE



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PART NUMBERING SYSTEM

PIF R50M 1910 7S
(1) (2) (3) (4)

No	Item	Code	Description	
(1)	Product Code	PIF	Power Inductor Series, Flat Wire Type	
(2)	Inductance	R50	R50: 0.5 μ H	1R2: 1.2 μ H, 2R0: 2.0 μ H
(3)	Size Code	1910	19.18 x 10.67mm, L x T (mm)	1912: 19.18 x 11.94mm
(4)	Series Code	7S	SMD 2T High Current Series	

*Specifications subject to change without notice.