Power Inductor
Flat Wire Type 27.2x29.0mm

PIF-27137P 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; PV Inverter

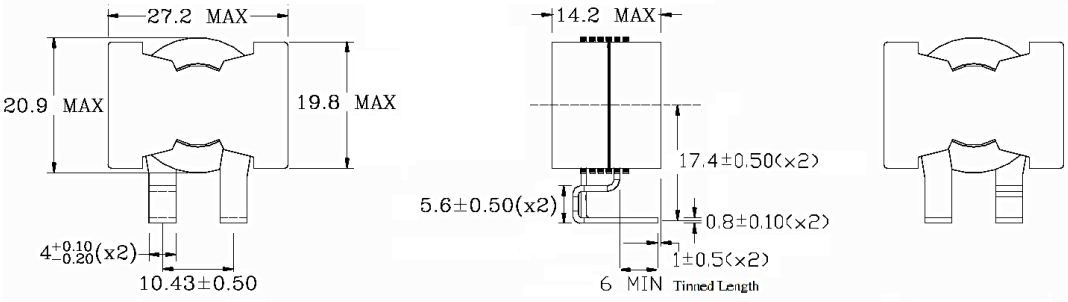
RoHS

ELECTRICAL CHARACTERISTICS

Part Number	Inductance ±10% (μH)	DCR ±10% (mΩ)	Temperature Rise Current (A)	Saturation Current (A)
PIF2R2K27137P	2.2	1.83	30	100.0
PIF2R2K2713L7P	2.2	1.50	30	84.8
PIF3R3K27137P	3.3	1.83	30	68.4
PIF3R3K2713L7P	3.3	1.50	30	57.0
PIF4R7K27137P	4.7	1.83	30	50.1
PIF4R7K2713L7P	4.7	1.50	30	39.0
PIF6R8K27137P	6.8	1.83	30	36.2
PIF6R8K2713L7P	6.8	1.50	30	27.8
PIF100K27137P	10.0	1.83	30	23.4
PIF100K2713L7P	10.0	1.50	30	17.6
PIF150K27137P	15.0	1.83	30	15.2
PIF150K2713L7P	15.0	1.50	30	11.0
PIF220K27137P	22.0	1.83	30	9.6
PIF220K2713L7P	22.0	1.50	30	6.8
PIF330K27137P	33.0	1.83	30	5.9
PIF330K2713L7P	33.0	1.50	30	3.3

Note:
1. Test frequency: 500KHZ, 01Vrms
2. ΔT=40°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°C ~ 125°C

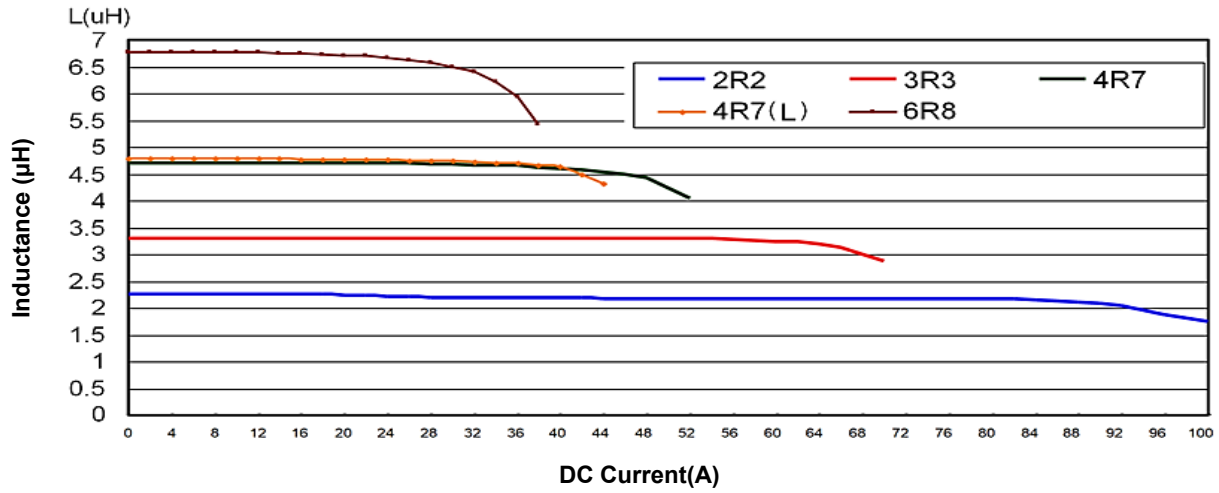
DIMENSIONS



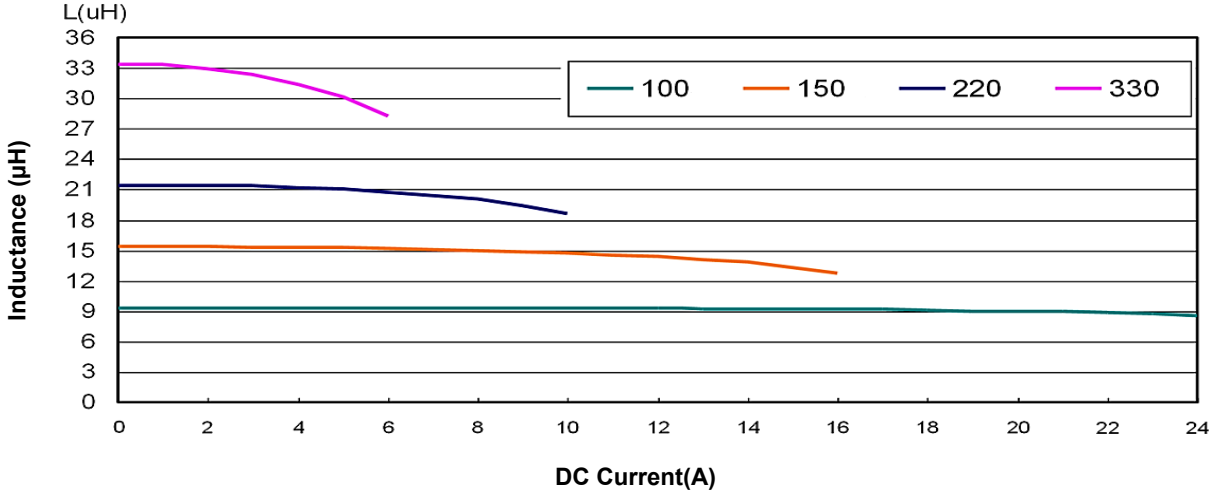
Unit: mm

CHARACTERISTICS CURVE

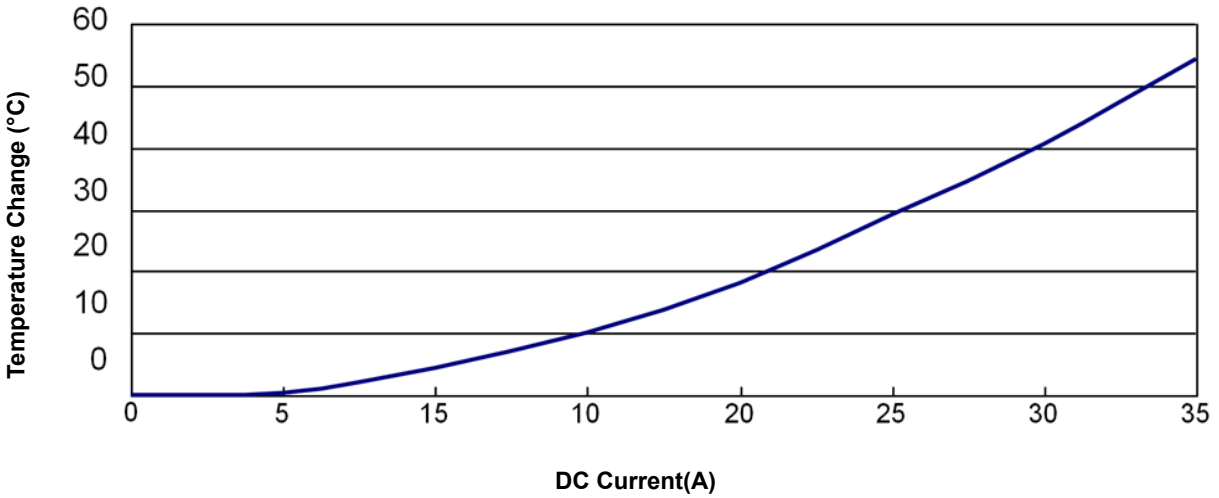
Inductance vs DC Bias Current



Inductance VS DC Bias Current



Temperatue Rise vs DC Bias



PART NUMBERING SYSTEM

PIF	2R2K	2713	L	7P
(1)	(2)	(3)	(4)	(5)

No	Item	Code	Description	
(1)	**Product Code**	PIF	Power Inductor Series, Flat Wire type	
(2)	**Inductance**	2R2K	2.2uH ±10% (K)	1R2: 1.2uH, 2R0: 2.0uH
(3)	**Size Code**	2713	27.2 x 14.2mm	L x T (mm)
(4)	**DCR type**	L	L: Low DCR	Blank: Standard DCR
(5)	**Series Code**	7P	Leaded 2T High Current Series	