

Power Inductor AEC-Q200

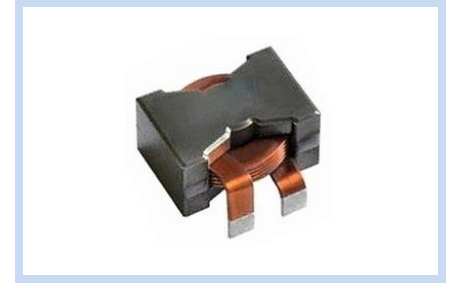
Flat Wire Type 21.5x14.2mm

PIF-2114M7P Series

MERITEK

FEATURE

- Low Core Loss and High Efficiency Performance
- Compliant With Rohs and Halogen Free
- Recommended Solder Profile: Reflow
- Application: DC/DC Converter In Power Regulation System
- AEC-Q200 Compliance



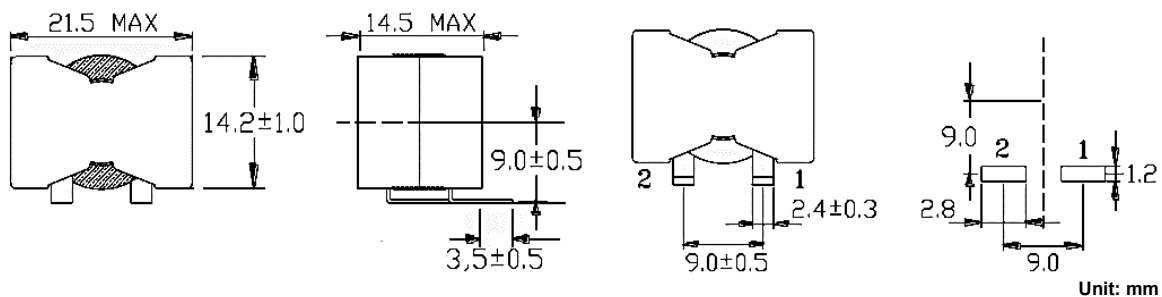
ELECTRICAL CHARACTERISTICS

Part Number	Inductance ±15% (μ H)	DCR ±10% (m Ω)	Temperature Rise Current (A)	Saturation Current (A)
PIFR70L2114M7P	0.7	0.83	55	75
PIF1R4L2114M7P	1.4	1.08	48	57
PIF2R2L2114M7P	2.2	1.50	39	50
PIF3R1L2114M7P	3.1	2.09	36	43
PIF4R2L2114M7P	4.2	3.04	25	38
PIF5R5L2114M7P	5.5	4.00	23	33
PIF7R0L2114M7P	7.0	5.61	21	30
PIF8R6L2114M7P	8.6	7.19	17	25
PIF100L2114M7P	10.0	7.96	16	23
PIF150L2114M7P	15.0	8.70	15	21
PIF220L2114M7P	22.0	10.65	13	15
PIF330L2114M7P	33.0	11.40	13	11
PIF470L2114M7P	47.0	12.20	12	8.5

Note:

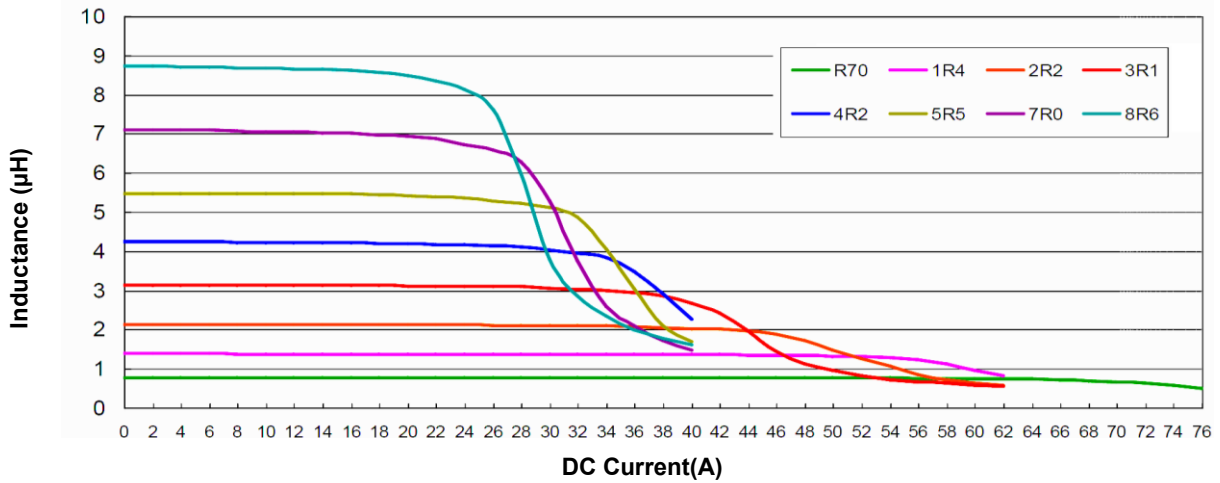
1. Test frequency: 100KHZ, 01Vrms
2. $\Delta T=50^{\circ}\text{C}$ approximately under the temperature rise current
3. The saturation current indicates the value of DC current is approximately 30% lower than its initial value of inductance.
4. Operation temperature range $-40^{\circ}\text{C} \sim 150^{\circ}\text{C}$

DIMENSIONS

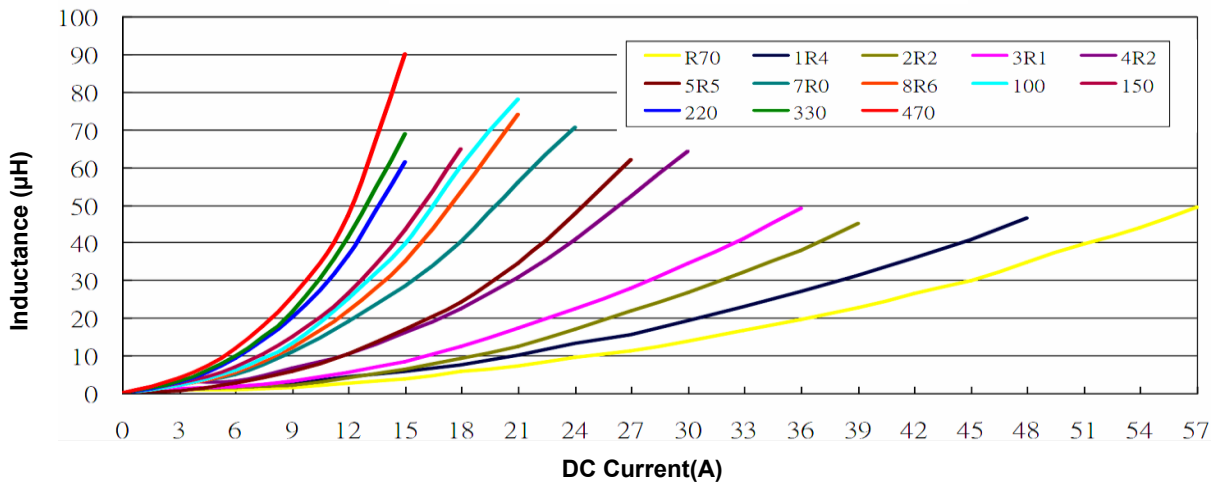


CHARACTERISTICS CURVE

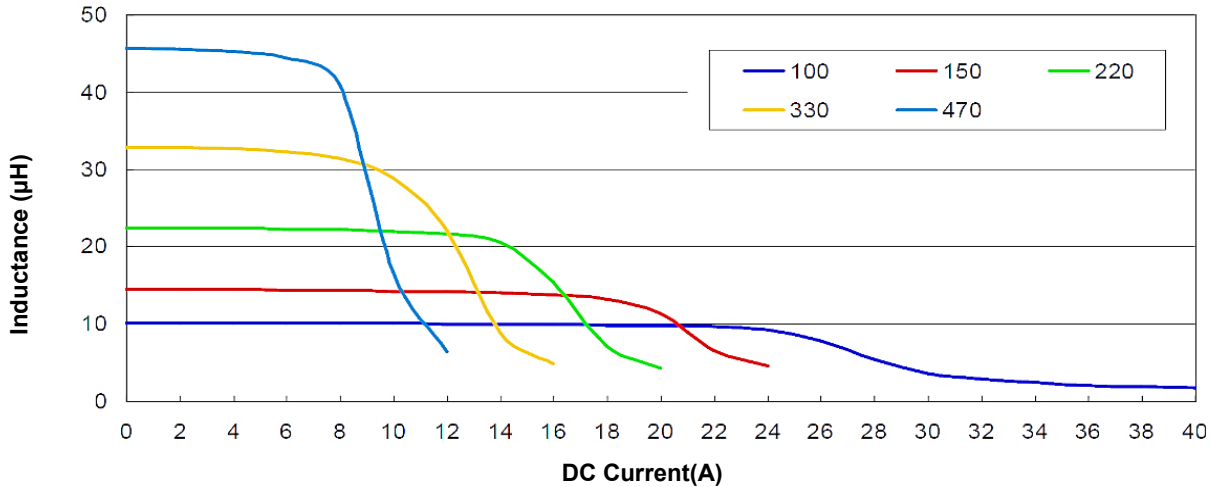
Inductance vs DC Bias Current



Inductance vs DC Bias Current



Inductance vs DC Bias Current



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PART NUMBERING SYSTEM

PIF R70L 2114 M7P
(1) (2) (3) (4)

No	Item	Code	Description	
(1)	Product Code	PIF	Power Inductor Series, Flat Wire type	
(2)	Inductance	R70L	0.70uH ± 15% (L)	1R2: 1.2uH, 2R0: 2.0uH
(3)	Size Code	2114	21.5 x 14.5mm	L x T (mm)
(4)	Series Code	M7P	Leaded 2T High Current Series AEC-Q200	

*Specifications subject to change without notice.