

# Power Inductor AEC-Q200

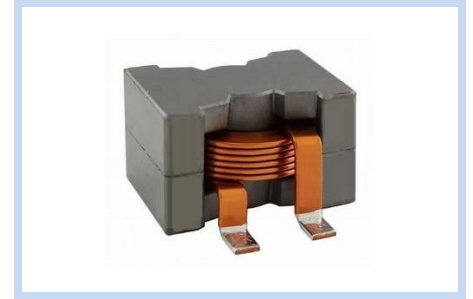
## Flat Wire Type 21.5x21.5mm

PIF-2114M7S 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



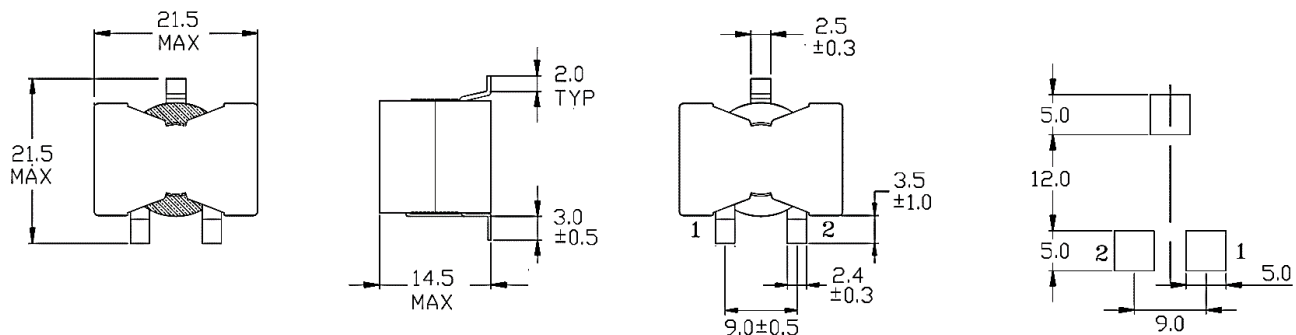
### ELECTRICAL CHARACTERISTICS

Part Number	Inductance ±20% ( $\mu$ H)	DCR ±10% (m $\Omega$ )	Temperature Rise Current (A)	Saturation Current (A)
PIFR70M2114M7S	0.7	0.83	55	75
PIF1R4M2114M7S	1.4	1.08	48	60
PIF2R2M2114M7S	2.2	1.50	39	50
PIF3R1M2114M7S	3.1	2.09	36	43
PIF4R2M2114M7S	4.2	3.04	25	38
PIF5R5M2114M7S	5.5	4.00	23	33
PIF7R0M2114M7S	7.0	5.61	21	30
PIF8R6M2114M7S	8.6	7.19	17	25
PIF100M2114M7S	10.0	7.96	16	23
PIF150M2114M7S	15.0	8.70	15	21
PIF220M2114M7S	22.0	10.65	13	15
PIF330M2114M7S	33.0	11.40	13	11
PIF470M2114M7S	47.0	12.20	12	8.5

Note:

1. Test frequency: 100 KHZ, 0.1Vrms.
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.

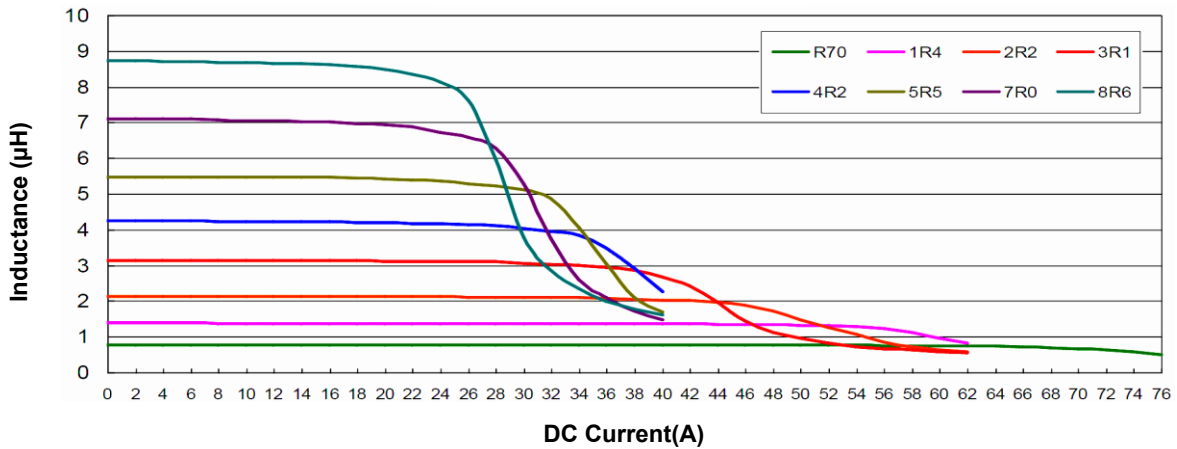
### DIMENSIONS



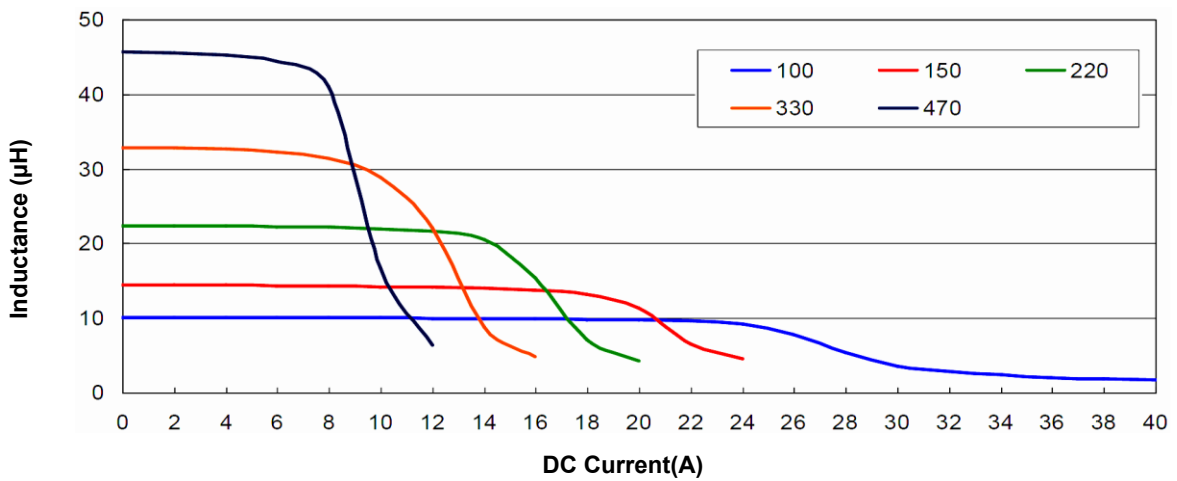
Unit: mm

**CHARACTERISTICS CURVE**

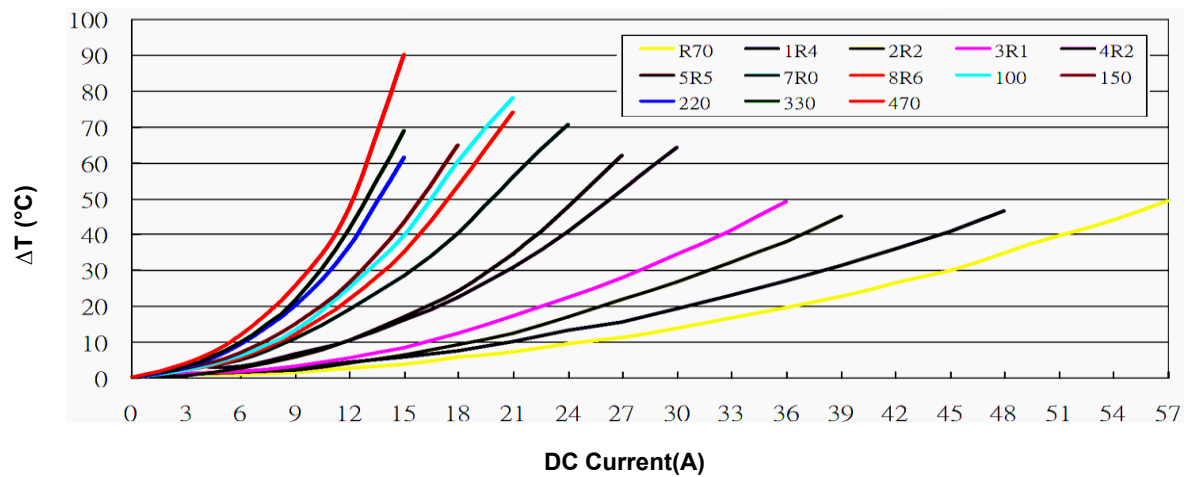
Inductance vs DC Bias Current



Inductance vs DC Bias Current



Temperature Rise vs DC Bias



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**PART NUMBERING SYSTEM**

PIF    R70M    2114    M7S  
(1)        (2)        (3)        (4)

No	Item	Code	Description	
(1)	Meritek Series	PIF	Power Inductor series, Flat Wire type	
(2)	Inductance	R70M	R70: 0.7uH ± 20%	1R2: 1.2uH, 2R0: 2.0uH
(3)	Size Code	2114	21.5 x 14.5mm	L x T (mm)
(4)	Series Code	M7S	SMD 3T High Current Series AEC-Q200	

\*Specifications subject to change without notice.