

Molder Power Inductor High Current Low DCR AEC-Q200

PIM-0660FMA2

MERITEK

FEATURE

- High Current, Low DCR, High Efficiency
- Soft Saturation
- Minimized Acoustic and Leakage Flux Noise
- Shielded and Compact Construction Design
- AEC-Q200 Compliant
- Application: Note PC Power System, incl. IMVP-6, DC/DC Converter



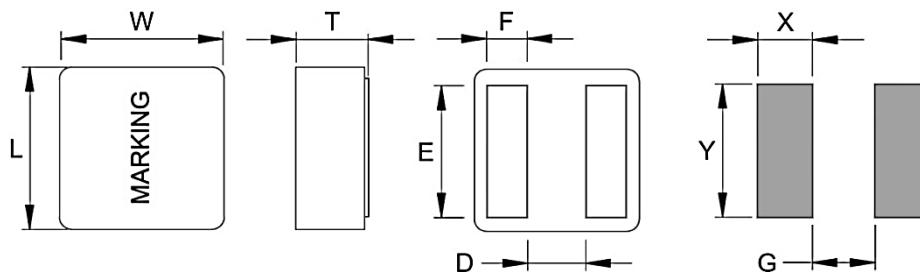
ELECTRICAL CHARACTERISTICS

Part Number	Inductance (μH)	Tolerance (%)	DCR (mΩ)		Isat (A)		Irms (A)	
			Typ	Max	Typ	Max	20°C Rise	40°C Rise
PIM1R0M0660FMA2	1.0	±20	3.90	4.29	18.0	16.0	15.0	19.0
PIM1R5M0660FMA2	1.5	±20	5.10	5.61	16.0	14.0	13.0	16.0
PIM2R2M0660FMA2	2.2	±20	7.00	7.80	14.0	12.0	11.0	14.0
PIM3R3M0660FMA2	3.3	±20	11.0	12.1	11.5	10.5	9.0	12.0
PIM4R7M0660FMA2	4.7	±20	13.1	14.4	10.5	9.5	8.0	11.0
PIM5R6M0660FMA2	5.6	±20	14.3	15.8	10.0	9.0	7.5	10.0
PIM6R8M0660FMA2	6.8	±20	18.9	20.8	9.2	8.7	7.0	9.0
PIM8R2M0660FMA2	8.2	±20	22.5	24.8	8.5	8.0	6.0	8.0

Note:

1. Inductance test under 100KHz, 1.0V
2. All test data referenced to 25°C ambient
3. Isat based on inductance drop ($\Delta L/L_0$: ≤30%) approximately.
4. Irms based on temperature rise (ΔT : 40°C) approximately.
5. Rated operating voltage: 15V reference.
6. Operating temperature: -55°C ~ +125°C (Including self-temperature rise)

DIMENSIONS



Size Code	L	W	T	D	E	F	X	Y	G
0660	7.2 ± 0.2	6.9 ± 0.2	5.8 ± 0.2	2.6 ± 0.25	5.3 ± 0.3	1.4 ± 0.2	1.55	5.6	2.5

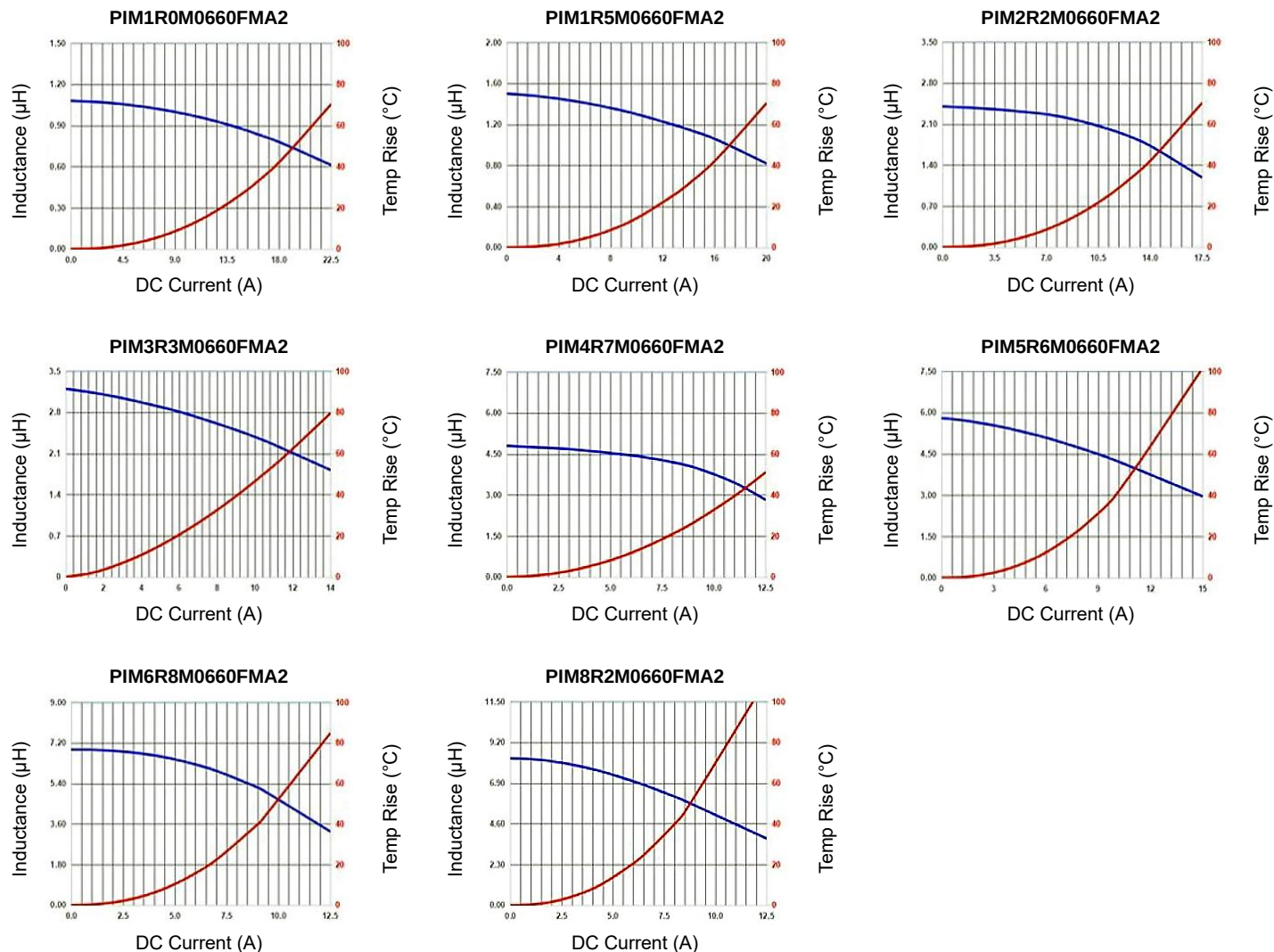
Unit: mm

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CHARACTERISTIC CURVES



PART NUMBERING SYSTEM

PIM (1) **4R7M** (2) **0660** (3) **FMA2** (4)

No.	Item	Code	Description
(1)	Product Code	PIM	Power Inductor, Molded Type
(2)	Inductance	4R7M	4.7μH ±20% (M) 1R0: 1.0μH, 8R2: 8.2μH
(3)	Size Code	0660	0660: 6.9 x 5.8mm (W x T) See dimensions table
(4)	Series Code	FMA2	Molded High Current, Low RDC AEC-Q200 series

*Specifications subject to change without notice.