

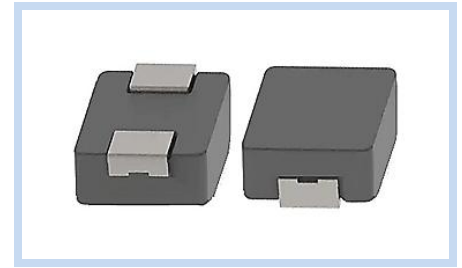
Molder Power Inductor High Current AEC-Q200

PIM-0402WMA6 series

MERITEK

FEATURE

- High Current, Low DCR, High Efficiency
- 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



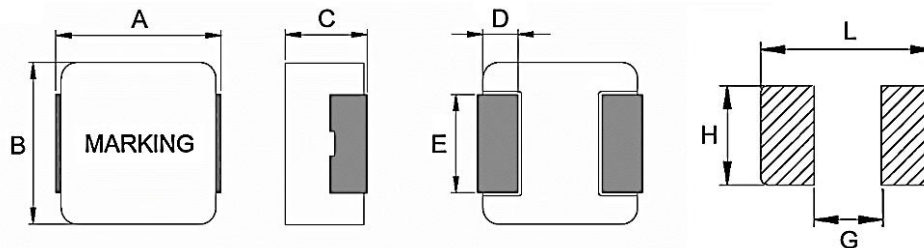
ELECTRICAL CHARACTERISTICS

Part Number	Inductance (μ H)	DCR (m Ω)		Isat (A)		Irms (A)	
		Max	Typ	Max	Typ	Max	Typ
PIM1R0M0402WMA6	1.0	21.0	17.0	7.0	8.5	5.5	6.5
PIM2R2M0402WMA6	2.2	38.0	32.0	4.2	5.5	4.2	4.6
PIM3R3M0402WMA6	3.3	55.0	44.0	3.8	4.2	3.0	3.5
PIM4R7M0402WMA6	4.7	70.0	57.0	3.2	3.8	2.2	3.0
PIM100M0402WMA6	10.0	190.0	170.0	2.1	2.6	1.8	2.0
PIM150M0402WMA6	15.0	275.0	220.0	1.5	2.0	1.2	1.6

Note:

1. Inductance test under 1MHz, 1.0Vrms.
2. All test data referenced to 25°C ambient
3. Isat based on inductance drop ($\Delta L/L_0$: $\leq 30\%$) approximately
4. Irms based on temperature rise (ΔT : 40°C) approximately.
5. Operating temperature: -55°C ~ +125°C (Including self-temperature rise)

DIMENSIONS



Unit: mm

A	B	C	D	E	G	H	L
4.4 $\pm$ 0.2	4.0 $\pm$ 0.2	1.8 $\pm$ 0.2	0.76 $\pm$ 0.3	2.0 $\pm$ 0.3	2.16	2.30	4.95

PART NUMBERING SYSTEM

PIM **1R0M** **0402** **WMA6**
(1) (2) (3) (4)

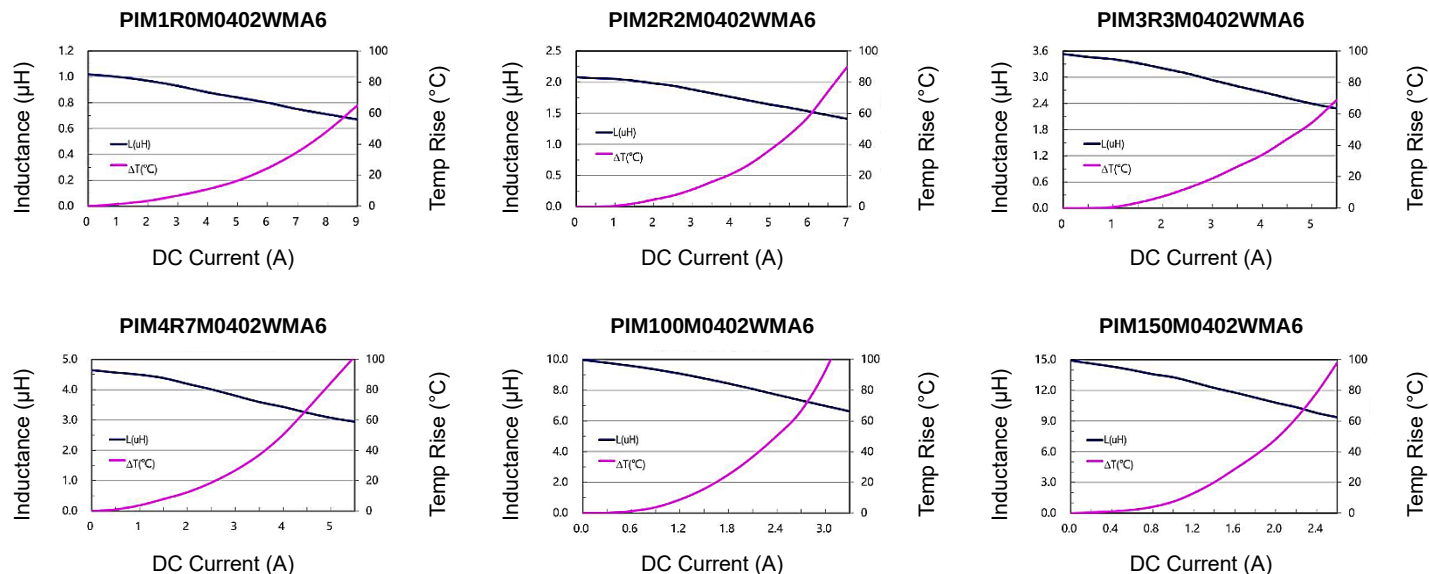
No.	Item	Code	Description	
(1)	Product Code	PIM	Power Inductor, Molded Type	
(2)	Inductance	1R0M	1.0 μ H $\pm$ 20% (M)	100: 10 μ H
(3)	Size Code	0402	0402: 4.4 x 2.0 mm (L x T)	
(4)	Series Code	WMA6	Molded High Current, AEC-Q200 series	

Molder Power Inductor High Current AEC-Q200

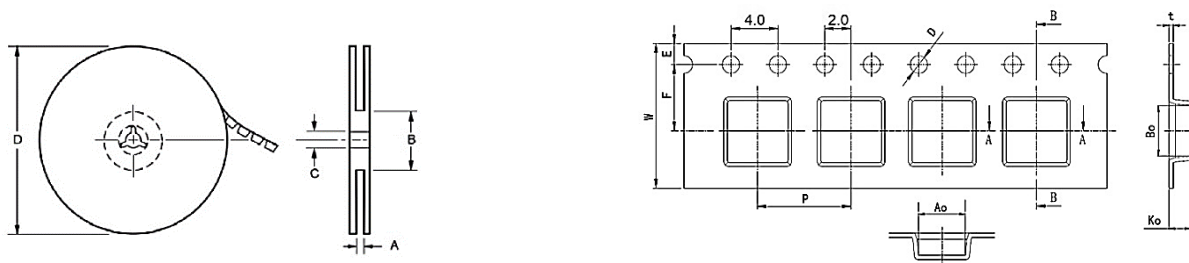
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CHARACTERISTIC CURVES



PACKAGING SPECIFICATION



Size Code	Reel Dimension (mm)				Tape Dimensions (mm)									Qty
	A	B	C	D	W	P	D	E	F	A0	B0	K0	t	13"
0402	±0.2	±0.5	±1	+2.0	±0.3	±0.1	±0.05	±0.10	±0.10	±0.10	±0.10	±0.10	±0.05	Reel
	16.8	97	13	330	12.0	8.0	1.55	1.75	7.50	7.70	8.20	5.70	0.50	3000

*Specifications subject to change without notice.