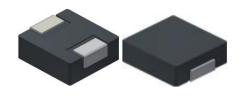
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High Current, Power Inductors

MPCA-0640-XXX-M Power Choke



Description

- Halogen Free
- 125°C maximum total temperature operation
- •7.3x6.8x 4.0mm maximum surface mount package
- · Powder iron core material
- · Magnetically shielded, low EMI
- · High current carrying capacity, Low core losses
- Frequency range up to 5MHz
- · RoHS compliant



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Applications

- Voltage Regulator Module (VRM)
- Multi-phase regulators
- · Point-of-load modules
- Smart phone POL modules
- SSD modules
- Notebook regulators
- · Battery power systems
- · Graphics cards
- · Data networking and storage systems

Environmental Data

- •Storage temperature range: -55 $^{\circ}$ C to +125 $^{\circ}$ C
- •Operating temperature range: -55 $^{\circ}$ to +125 $^{\circ}$

(ambient plus self-temperature rise)

•Solder reflow temperature: J-STD-020D

compliant

Description												
	М	PCA-0	640-100-	М	10.0µH					±20 %		
		M	lodel		Inductance Value					Inductance Tolerance		
Global Part Number												
М	Р	С	Α	0	6	4	0	1	0	0	M	
Product SeriesDimensionsInductance ValueTol.												

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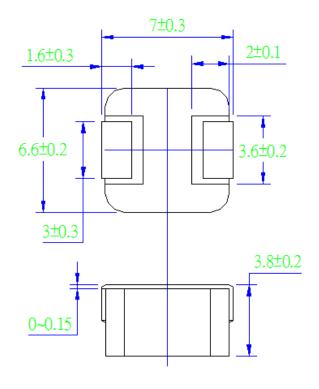
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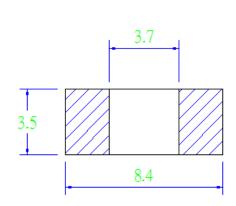
	Inductance	DC Res	sistance	Heating Rating Current	Saturation Current
Part No.	L0 (µH)	DCR	(mΩ)	Idc (A)	Isat (A)
	±20 %, 100 kHz, 1V	TYP.	MAX.	TYP.	TYP.
MPCA-0640-R36-M	0.36	1.5	1.8	24.0	25.0
MPCA-0640-6R8-M	6.8	39.0	45.0	5.5	6.5
MPCA-0640-100-M	10.0	60.0	65.0	5.0	5.0

Notes

- All test data is referenced to 25 ℃ ambient
- Operating temperature range 55 ℃ to + 125 ℃
- 3. Idc(A):DC current (A) that will cause an approximate ΔT of 40 C (reference ambient temperature is 25 C)
- 4. Isat(A):DC current (A) that will cause L0 to dropapproximately30 %
- 5. The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

•Dimensions-mm





Recommend Land Pattern Dimensions

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Marking

The inductor is marked with a 3-digit code

Example - -10.0→100

Note: Using Ink for marking

