



# PSM0312 Series

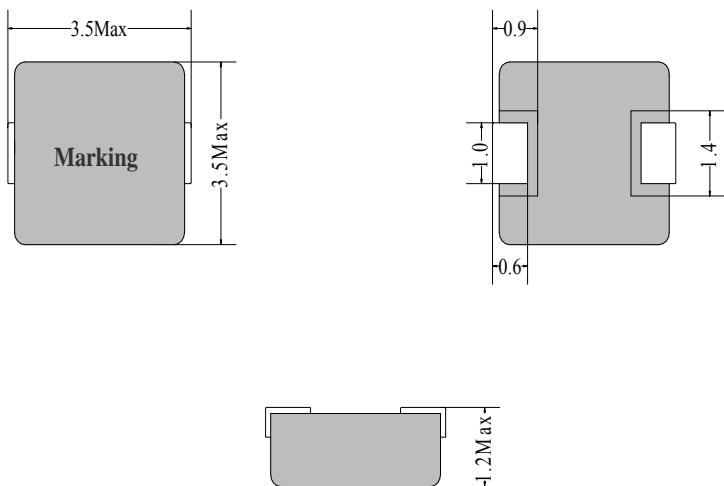
**SMD Molded High Current Inductor**

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Created	Checked	Type	Date	Version	Page
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## 1. Dimensions: [mm]



## 4. General Properties:

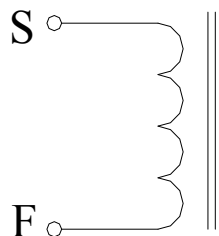
It is recommended that the temperature of the component does not exceed +125°C under worst case conditions

Ambient Temperature(referring to IR)	-40 °C up to +85 °C
Operating Temperature:	-40 °C up to +125 °C
Storage Temperature (in original packaging)	-20 °C up to +40 °C"75% RH Max
Test conditions of Electrical Properties: +20°C, 33% RH if not specified differently.if not specified differently	

## 5. Electrical Properties:

Part Code	Inductance	Test condition	DC-Resistance	Heat Rating Current	Saturation current
PSM0312-R68N	0.68uH±30%	100KHZ/1V	40mΩ Max	3.5A Max	5.0A Max
PSM0312-1R0N	1.0uH±30%	100KHZ/1V	60mΩ Max	3.0A Max	4.5A Max
PSM0312-1R5N	1.5uH±30%	100KHZ/1V	85mΩ Max	2.5A Max	3.8A Max
PSM0312-2R2N	2.2uH±30%	100KHZ/1V	125mΩ Max	1.8A Max	3.1A Max
PSM0312-3R3N	3.3uH±30%	100KHZ/1V	160mΩ Max	1.5A Max	2.6A Max

## 2. Schematic:



## 3. PCB Layout Ref(mm)

