

# MOX-SPI-0602



**MoxiE**<sup>®</sup>  
INDUCTOR CORPORATION

## Surface Mount Shielded Power Inductors

MoxiE's SPI-0602 series of surface mount shielded power inductors are widely used in PDA's, notebooks, LCD televisions and digital cameras. MoxiE offers a ultra low profile magnetically shielded package that offer high inductance & high power.

### Features:

- Low cost.
- Operating temperature: -40°C to +85°C.
- High current rating.
- RoHS compliant.
- Magnetically shielded applications.



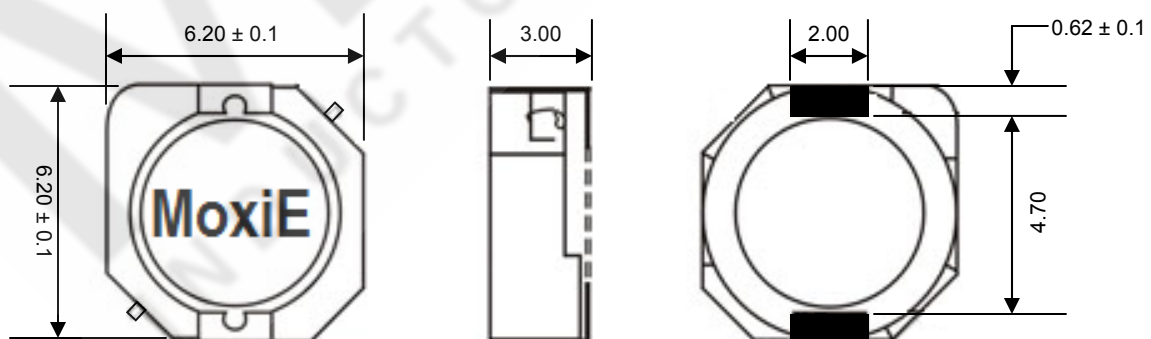
## NOTES

- Measuring Frequency (L) 100kHz/0.1V.
- Available Tolerances: M= ±20%.
- Storage temperature range: -40°C to +125°C.
- Operating ambient temperature range: -40°C to +85°C .
- DC current at which the inductance drops 35% (typical) from its value without current.
- Solder reflow temperature: +260°C max. for 10 seconds max.
- Open circuit inductance test parameters: 100kHz, 0.25Vrms, 0.0Adc.
- RMS current for an approximate AT of 40°C without core loss. It is recommended that the temperature of the part not exceed 130°C.
- Peak current for approximate 30% roll off at 20°C.
- Temperature rise of 40°C maximum.
- DCR limits @ 20°C.
- MoxiE Inductor Corporation specifications are subject to change without notice.



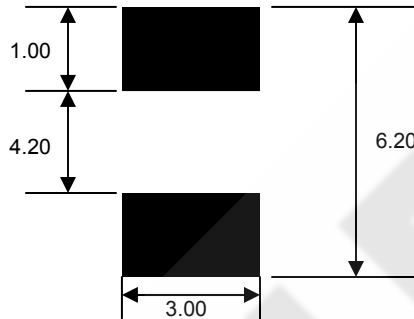
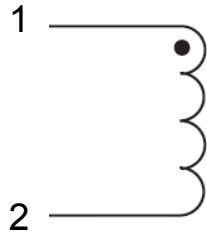
## MECHANICAL DIMENSIONS

MoxiE Note: All dimensions in mm





## LANDING PATTERN & SCHEMATIC



## ELECTRICAL SPECIFICATIONS

MoxiE Part Number	Rated Inductance (μH)	Test Condition	Tolerance (%)	DC Resistance (Ω) Max.	Rated Current (A) Max.
MOX-SPI-0602-2R7M	2.70	100KHz / 0.1V	±20	0.018	2.70
MOX-SPI-0602-3R3M	3.30	100KHz / 0.1V	±20	0.020	2.45
MOX-SPI-0602-5R0M	5.00	100KHz / 0.1V	±20	0.031	1.95
MOX-SPI-0602-8R0M	8.00	100KHz / 0.1V	±20	0.050	1.60
MOX-SPI-0602-100M	10.00	100KHz / 0.1V	±20	0.054	1.40
MOX-SPI-0602-120M	12.00	100KHz / 0.1V	±20	0.072	1.25
MOX-SPI-0602-150M	15.00	100KHz / 0.1V	±20	0.082	1.15
MOX-SPI-0602-180M	18.00	100KHz / 0.1V	±20	0.102	1.10
MOX-SPI-0602-220M	22.00	100KHz / 0.1V	±20	0.119	1.00
MOX-SPI-0602-270M	27.00	100KHz / 0.1V	±20	0.146	0.95
MOX-SPI-0602-330M	33.00	100KHz / 0.1V	±20	0.183	0.78
MOX-SPI-0602-390M	39.00	100KHz / 0.1V	±20	0.210	0.75
MOX-SPI-0602-470M	47.00	100KHz / 0.1V	±20	0.230	0.65
MOX-SPI-0602-560M	56.00	100KHz / 0.1V	±20	0.305	0.60
MOX-SPI-0602-680M	68.00	100KHz / 0.1V	±20	0.351	0.55
MOX-SPI-0602-820M	82.00	100KHz / 0.1V	±20	0.419	0.49
MOX-SPI-0602-101M	100.00	100KHz / 0.1V	±20	0.520	0.44