

# MOX-SPI-6D38

## Surface Mount Shielded Power Inductors

MoxiE's SPI-6D38 series of surface mount shielded power inductors are widely used in power line filters, EMI sensitive applications, PDA's, 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.
- Available tolerances: ±20%.
- RoHS compliant.
- Magnetically shielded applications.



## NOTES

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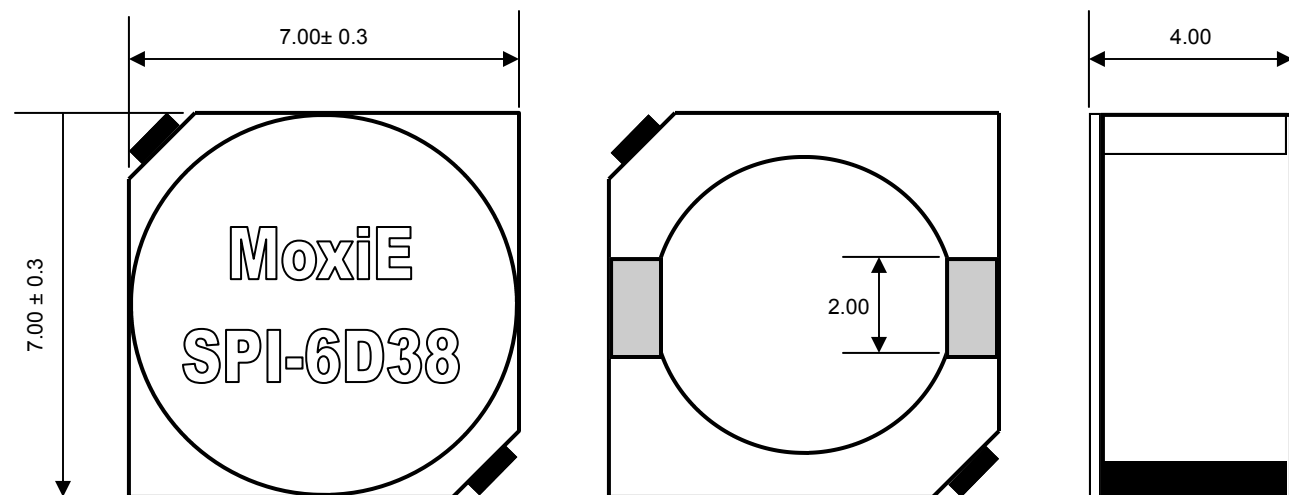
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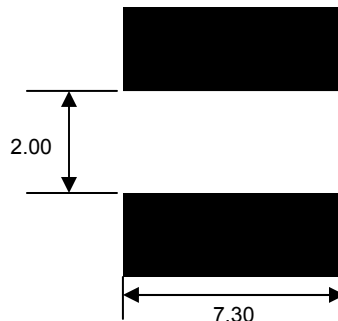
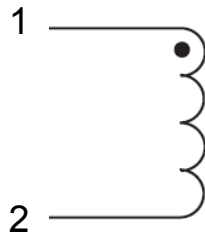
## MECHANICAL DIMENSIONS



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## LANDING PATTERN & SCHEMATIC



## ELECTRICAL SPECIFICATIONS

MoxiE Part Number	Inductance (μH)	Tolerance (%)	RDC Maximum (mΩ)	Rated Current (A)	SRF Typical (MHz)	L Test Frequency (0.1 Vrms)
MOX-SPI-6D38-3R3M	3.3	20% (M)	20.0	4.10	58.0	100 kHz
MOX-SPI-6D38-5R0M	5.0	20% (M)	24.0	3.17	46.0	100 kHz
MOX-SPI-6D38-6R2M	6.2	20% (M)	27.0	3.00	42.0	100 kHz
MOX-SPI-6D38-7R4M	7.4	20% (M)	31.0	2.60	40.0	100 kHz
MOX-SPI-6D38-8R7M	8.7	20% (M)	34.0	2.39	35.0	100 kHz
MOX-SPI-6D38-100M	10.0	20% (M)	38.0	2.15	32.0	100 kHz
MOX-SPI-6D38-120M	12.0	20% (M)	53.0	1.95	26.3	100 kHz
MOX-SPI-6D38-150M	15.0	20% (M)	57.0	1.80	22.5	100 kHz
MOX-SPI-6D38-180M	18.0	20% (M)	78.0	1.65	24.0	100 kHz
MOX-SPI-6D38-220M	22.0	20% (M)	82.0	1.45	21.5	100 kHz
MOX-SPI-6D38-270M	27.0	20% (M)	109.0	1.25	19.1	100 kHz
MOX-SPI-6D38-330M	33.0	20% (M)	124.0	1.17	18.0	100 kHz
MOX-SPI-6D38-390M	39.0	20% (M)	138.0	1.14	17.0	100 kHz
MOX-SPI-6D38-470M	47.0	20% (M)	155.0	1.10	14.2	100 kHz
MOX-SPI-6D38-560M	56.0	20% (M)	202.0	0.90	13.5	100 kHz
MOX-SPI-6D38-680M	68.0	20% (M)	234.0	0.82	12.0	100 kHz
MOX-SPI-6D38-820M	82.0	20% (M)	324.0	0.74	11.0	100 kHz
MOX-SPI-6D38-101M	100.0	20% (M)	358.0	0.72	10.5	100 kHz



## ENGINEERING NOTES

- Rated current: The rated current indicates the current when the inductance decreases to 65% over its nominal value or D.C. current when the temperature rises  $\Delta t=40^{\circ}\text{C}$ .
- Inductance measured at 10.00 KHz.
- MoxiE test instruments: HP4192A LF impedance analyzer. RDC: CH502BC Rated current: HP4284+HP42841A or CH1061+CH301A
- Magnetically shielded to prevent noise radiation.
- Packaging: Tape & Reel.
- MoxiE Inductor Corporation specifications are subject to change without notice.