

MOX-SPI-4D18



MoxiE[®]
INDUCTOR CORPORATION

Surface Mount Shielded Power Inductors

MoxiE's SPI-4D18 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:

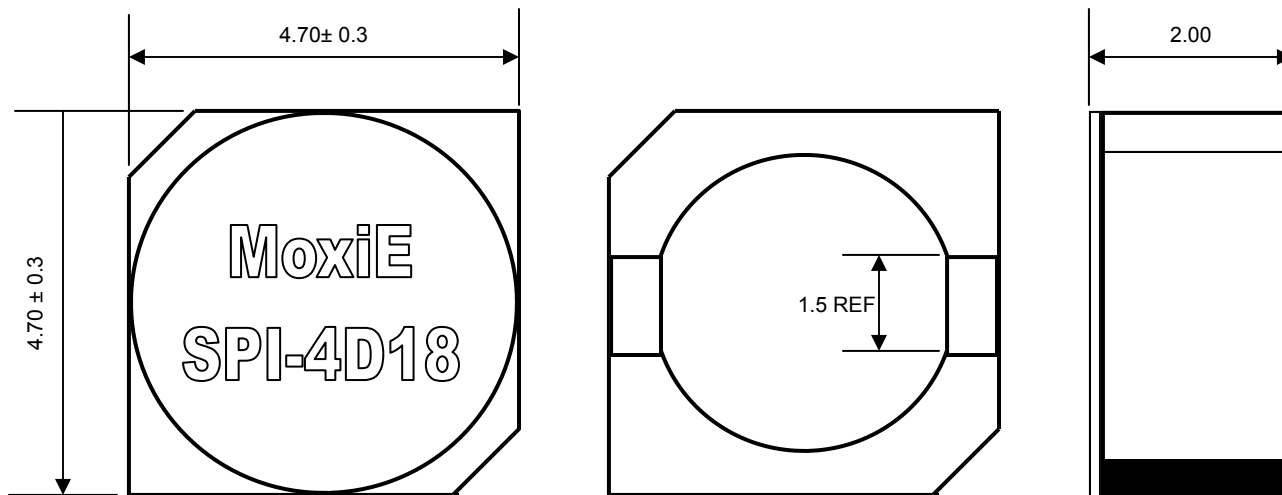
- Low Cost.
- Operating Temperature: -40°C to +85°C.
- Available Tolerances: $\pm 20\%$ & $\pm 30\%$.
- RoHS Compliant.
- Magnetically Shielded Applications.



NOTES

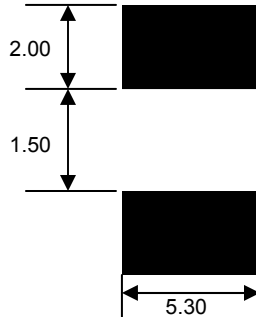
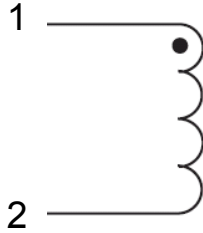


MECHANICAL DIMENSIONS





LANDING PATTERN & SCHEMATIC



ELECTRICAL SPECIFICATIONS

Part Number	Inductance (µH)	Tolerance (%)	RDC (Ω) Maximum	Rated Current (A)	L Test Frequency
MOX-SPI-4D18-1R0M	1.0	20% (M)	0.034	1.74	100 kHz
MOX-SPI-4D18-2R2M	2.2	20% (M)	0.045	1.34	100 kHz
MOX-SPI-4D18-2R7M	2.7	20% (M)	0.058	1.29	100 kHz
MOX-SPI-4D18-3R3M	3.3	20% (M)	0.070	1.06	100 kHz
MOX-SPI-4D18-3R9M	3.9	20% (M)	0.082	0.90	100 kHz
MOX-SPI-4D18-4R7M	4.7	20% (M)	0.093	0.85	100 kHz
MOX-SPI-4D18-5R6M	5.6	20% (M)	0.112	0.81	100 kHz
MOX-SPI-4D18-6R8M	6.8	20% (M)	0.14	0.78	100 kHz
MOX-SPI-4D18-8R2M	8.2	20% (M)	0.174	0.69	100 kHz
MOX-SPI-4D18-100M	10.0	20% (M)	0.200	0.62	100 kHz
MOX-SPI-4D18-120M	12.0	20% (M)	0.229	0.58	100 kHz
MOX-SPI-4D18-150M	15.0	20% (M)	0.261	0.52	100 kHz
MOX-SPI-4D18-180M	18.0	20% (M)	0.295	0.50	100 kHz
MOX-SPI-4D18-220M	22.0	20% (M)	0.397	0.42	100 kHz
MOX-SPI-4D18-270M	27.0	20% (M)	0.441	0.37	100 kHz
MOX-SPI-4D18-330M	33.0	20% (M)	0.525	0.33	100 kHz
MOX-SPI-4D18-390M	39.0	20% (M)	0.600	0.32	100 kHz
MOX-SPI-4D18-470M	47.0	20% (M)	0.760	0.30	100 kHz
MOX-SPI-4D18-560M	56.0	20% (M)	0.880	0.27	100 kHz
MOX-SPI-4D18-680M	68.0	20% (M)	1.010	0.25	100 kHz
MOX-SPI-4D18-820M	82.0	20% (M)	1.550	0.23	100 kHz
MOX-SPI-4D18-101M	100.0	20% (M)	1.690	0.21	100 kHz
MOX-SPI-4D18-121M	120.0	20% (M)	2.070	0.20	100 kHz
MOX-SPI-4D18-151M	150.0	20% (M)	2.600	0.19	100 kHz
MOX-SPI-4D18-181M	180.0	20% (M)	2.960	0.17	100 kHz
MOX-SPI-4D18-221M	220.0	20% (M)	4.190	0.16	100 kHz
MOX-SPI-4D18-271M	270.0	20% (M)	4.720	0.15	100 kHz
MOX-SPI-4D18-331M	330.0	20% (M)	5.380	0.13	100 kHz
MOX-SPI-4D18-391M	390.0	20% (M)	8.910	0.12	100 kHz

- 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 $\Delta t=40^{\circ}\text{C}$.
- Moxie test instruments: HP4192A LF impedance analyzer. RDC: CH502BC Rated current: HP4284+HP42841A or CH1061+CH301A
- Magnetically shielded to prevent noise radiation.
- Moxie Inductor Corporation specifications are subject to change without notice.