

# MOX-SPI-1005

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

## Surface Mount Shielded Power Inductors

MoxiE's SPI-1005 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.

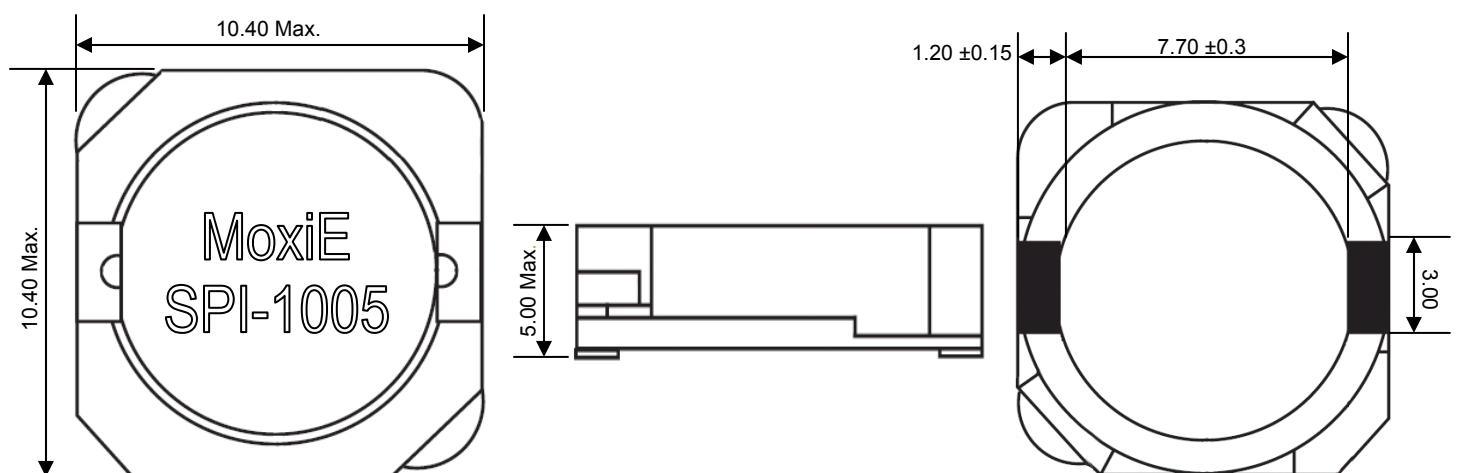


## NOTES

- Measuring Frequency (L) 100 kHz
- Available Tolerances: M=  $\pm 20\%$ , N=  $\pm 30\%$
- Packaging: Tape & reel (500 pcs per reel)
- RoHS Compliant.
- DC current at which the inductance drops 35% (typical) from its value without current.
- Temperature rise of 40°C maximum.
- Magnetically shielded to prevent noise radiation.
- MoxiE Inductor Corporation specifications are subject to change without notice.



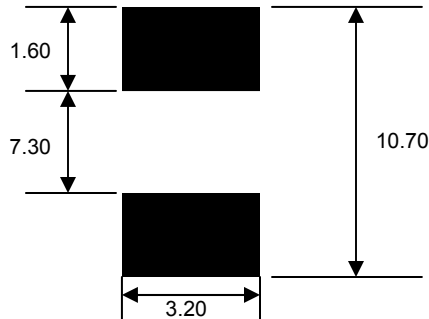
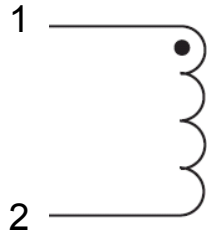
## MECHANICAL DIMENSIONS



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## LANDING PATTERN & SCHEMATIC



MOX-SPI-1005 CONSTRUCTION



## ELECTRICAL SPECIFICATIONS

MoxiE Part Number	Inductance (µH)	Tolerance (%)	DCR (mΩ) Maximum	Rated Current (A)	Test Frequency (L)
MOX-SPI-1005-R80□	0.8	20% (M), 30% (N)	4.30	13.50	100 kHz@ 1V
MOX-SPI-1005-1R5□	1.5	20% (M), 30% (N)	5.80	10.50	100 kHz@ 1V
MOX-SPI-1005-2R2□	2.2	20% (M), 30% (N)	7.20	9.25	100 kHz@ 1V
MOX-SPI-1005-3R3□	3.3	20% (M), 30% (N)	10.40	7.80	100 kHz@ 1V
MOX-SPI-1005-4R7□	4.7	20% (M), 30% (N)	12.30	6.40	100 kHz@ 1V
MOX-SPI-1005-6R8□	6.8	20% (M), 30% (N)	18.00	5.40	100 kHz@ 1V
MOX-SPI-1005-8R2□	8.2	20% (M), 30% (N)	20.00	4.85	100 kHz@ 1V
MOX-SPI-1005-100□	10.0	20% (M), 30% (N)	26.00	4.45	100 kHz@ 1V
MOX-SPI-1005-120□	12.0	20% (M), 30% (N)	33.00	4.00	100 kHz@ 1V
MOX-SPI-1005-150□	15.0	20% (M), 30% (N)	41.00	3.60	100 kHz@ 1V
MOX-SPI-1005-180□	18.0	20% (M), 30% (N)	46.00	3.20	100 kHz@ 1V
MOX-SPI-1005-220□	22.0	20% (M), 30% (N)	61.00	2.95	100 kHz@ 1V
MOX-SPI-1005-270□	27.0	20% (M), 30% (N)	69.00	2.70	100 kHz@ 1V
MOX-SPI-1005-330□	33.0	20% (M), 30% (N)	84.00	2.50	100 kHz@ 1V
MOX-SPI-1005-390□	39.0	20% (M), 30% (N)	106.00	2.30	100 kHz@ 1V
MOX-SPI-1005-470□	47.0	20% (M), 30% (N)	130.00	2.00	100 kHz@ 1V
MOX-SPI-1005-560□	56.0	20% (M), 30% (N)	149.00	1.90	100 kHz@ 1V
MOX-SPI-1005-680□	68.0	20% (M), 30% (N)	201.00	1.65	100 kHz@ 1V
MOX-SPI-1005-820□	82.0	20% (M), 30% (N)	227.00	1.50	100 kHz@ 1V
MOX-SPI-1005-101□	100.0	20% (M), 30% (N)	253.00	1.35	100 kHz@ 1V
MOX-SPI-1005-121□	120.0	20% (M), 30% (N)	303.00	1.28	100 kHz@ 1V
MOX-SPI-1005-151□	150.0	20% (M), 30% (N)	370.00	1.12	100 kHz@ 1V
MOX-SPI-1005-181□	180.0	20% (M), 30% (N)	419.00	1.04	100 kHz@ 1V
MOX-SPI-1005-221□	220.0	20% (M), 30% (N)	500.00	0.94	100 kHz@ 1V
MOX-SPI-1005-271□	270.0	20% (M), 30% (N)	672.00	0.84	100 kHz@ 1V
MOX-SPI-1005-331□	330.0	20% (M), 30% (N)	812.00	0.75	100 kHz@ 1V
MOX-SPI-1005-391□	390.0	20% (M), 30% (N)	905.00	0.70	100 kHz@ 1V
MOX-SPI-1005-471□	470.0	20% (M), 30% (N)	930.00	0.60	100 kHz@ 1V
MOX-SPI-1005-561□	560.0	20% (M), 30% (N)	1300.00	0.54	100 kHz@ 1V
MOX-SPI-1005-681□	680.0	20% (M), 30% (N)	1599.00	0.52	100 kHz@ 1V
MOX-SPI-1005-821□	820.0	20% (M), 30% (N)	1768.00	0.50	100 kHz@ 1V
MOX-SPI-1005-102□	1000.0	20% (M), 30% (N)	1989.00	0.48	100 kHz@ 1V