

# MOX-SPI-1004R

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

## Surface Mount High Current Shielded Power Inductors

MoxiE's SPI-1004R 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: -30°C to +85°C.
- Available tolerances:  $\pm 20\%$  &  $\pm 30\%$ .
- RoHS compliant.
- Magnetically shielded applications.
- MoxiE Inductor Corporation custom designs available.



## NOTES

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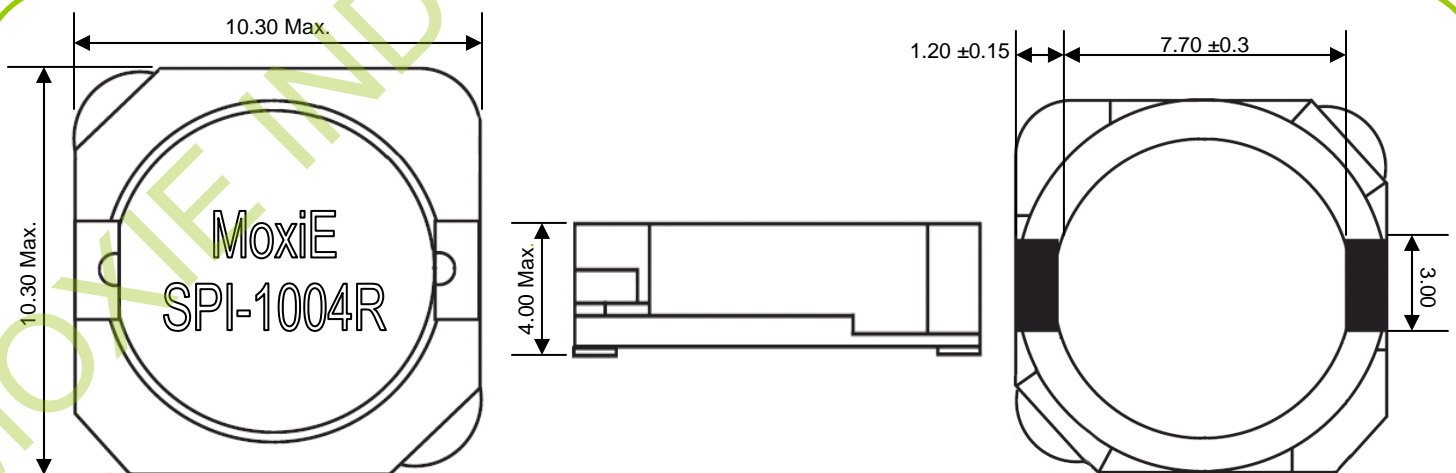
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## MECHANICAL DIMENSIONS



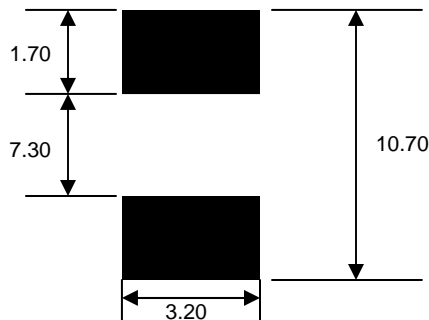
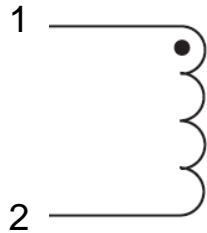
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## LANDING PATTERN & SCHEMATIC



MOX-SPI-1004R CONSTRUCTION



## ELECTRICAL SPECIFICATIONS

MoxiE Part Number	Inductance (μH)	Tolerance (%)	DCR (mΩ) Maximum	Rated Current (A) Max.	L Test Frequency
MOX-SPI-1004R-1R5□	1.5	20% (M) 30% (N)	8.10	10.50	100 kHz
MOX-SPI-1004R-2R5□	2.5	20% (M) 30% (N)	10.50	7.80	100 kHz
MOX-SPI-1004R-3R8□	3.8	20% (M) 30% (N)	13.00	6.50	100 kHz
MOX-SPI-1004R-5R2□	5.2	20% (M) 30% (N)	22.00	6.00	100 kHz
MOX-SPI-1004R-7R0□	7.0	20% (M) 30% (N)	27.00	4.90	100 kHz
MOX-SPI-1004R-100□	10.0	20% (M) 30% (N)	35.00	4.70	100 kHz
MOX-SPI-1004R-150□	15.0	20% (M) 30% (N)	50.00	3.80	100 kHz
MOX-SPI-1004R-220□	22.0	20% (M) 30% (N)	73.00	2.95	100 kHz
MOX-SPI-1004R-330□	33.0	20% (M) 30% (N)	93.00	2.35	100 kHz
MOX-SPI-1004R-470□	47.0	20% (M) 30% (N)	128.00	2.10	100 kHz
MOX-SPI-1004R-680□	68.0	20% (M) 30% (N)	213.00	1.42	100 kHz
MOX-SPI-1004R-101□	100.0	20% (M) 30% (N)	304.00	1.45	100 kHz
MOX-SPI-1004R-151□	150.0	20% (M) 30% (N)	506.00	1.20	100 kHz
MOX-SPI-1004R-221□	220.0	20% (M) 30% (N)	756.00	0.94	100 kHz
MOX-SPI-1004R-331□	330.0	20% (M) 30% (N)	1.0900	0.75	100 kHz



## MOX-SPI-1004R ENGINEERING NOTES

- Measuring Frequency (L) 100 kHz
- Available Tolerances: M= ±20%, N= ±30%
- 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.