

# MOX-SPI-1004



## Surface Mount Shielded Power Inductors

MoxiE's SPI-1004 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.



## NOTES

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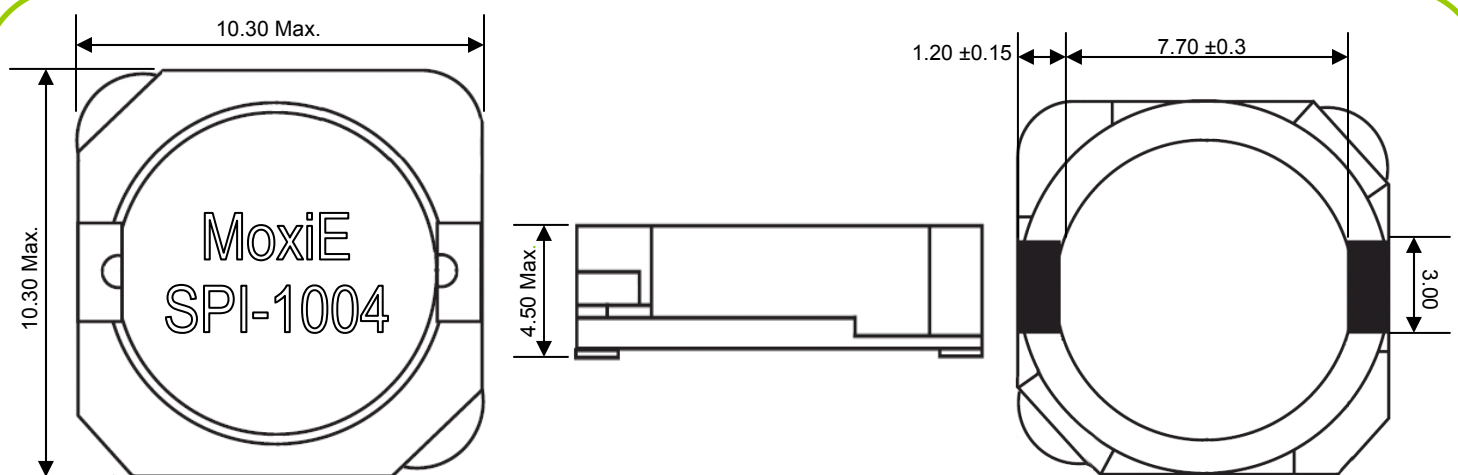
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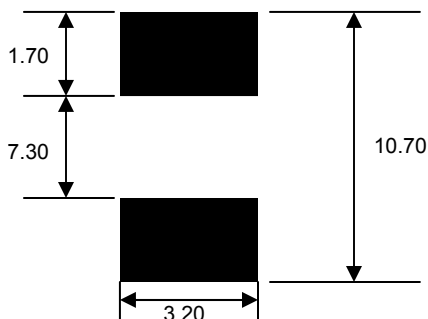
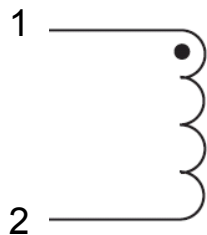


## MECHANICAL DIMENSIONS





## LANDING PATTERN & SCHEMATIC



MOX-SPI-1004 CONSTRUCTION



## ELECTRICAL SPECIFICATIONS

Part Number	Inductance (µH)	Tolerance (%)	RDC (Ω) Maximum	IDC Max. (A)	L Test Frequency
MOX-SPI-1004-1R0	1.0	30% (N)	0.007	10.50	100 kHz
MOX-SPI-1004-1R5	1.5	30% (N)	0.010	9.80	100 kHz
MOX-SPI-1004-1R8	1.8	30% (N)	0.011	9.50	100 kHz
MOX-SPI-1004-2R5	2.5	30% (N)	0.013	7.50	100 kHz
MOX-SPI-1004-2R7	2.7	30% (N)	0.018	7.00	100 kHz
MOX-SPI-1004-3R5	3.5	30% (N)	0.013	6.30	100 kHz
MOX-SPI-1004-3R8	3.8	30% (N)	0.013	6.00	100 kHz
MOX-SPI-1004-4R4	4.4	30% (N)	0.025	5.70	100 kHz
MOX-SPI-1004-5R6	5.6	30% (N)	0.029	5.30	100 kHz
MOX-SPI-1004-6R8	6.8	30% (N)	0.032	5.00	100 kHz
MOX-SPI-1004-7R5	7.5	30% (N)	0.037	4.80	100 kHz
MOX-SPI-1004-120	12.0	30% (N)	0.050	4.20	100 kHz
MOX-SPI-1004-150	15.0	30% (N)	0.070	3.60	100 kHz
MOX-SPI-1004-220	22.0	30% (N)	0.100	2.90	100 kHz
MOX-SPI-1004-330	33.0	30% (N)	0.150	2.30	100 kHz
MOX-SPI-1004-470	47.0	30% (N)	0.185	2.10	100 kHz
MOX-SPI-1004-680	68.0	30% (N)	0.310	1.50	100 kHz
MOX-SPI-1004-101	100.0	30% (N)	0.410	1.35	100 kHz
MOX-SPI-1004-151	150.0	30% (N)	0.560	1.15	100 kHz
MOX-SPI-1004-221	220.0	30% (N)	0.870	0.92	100 kHz
MOX-SPI-1004-331	330.0	30% (N)	1.250	0.70	100 kHz
MOX-SPI-1004-471	470.0	30% (N)	1.650	0.50	100 kHz
MOX-SPI-1004-681	680.0	30% (N)	3.100	0.30	100 kHz
MOX-SPI-1004-102	1000.0	30% (N)	5.500	0.20	100 kHz



## MOX-SPI-1004 ENGINEERING NOTES

- Measuring Frequency (L) 100 kHz
- Available Tolerances: K = ±10%, 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.
- MoxiE Inductor Corporation specifications are subject to change without notice.