MOX-SPI-2525A SERIES

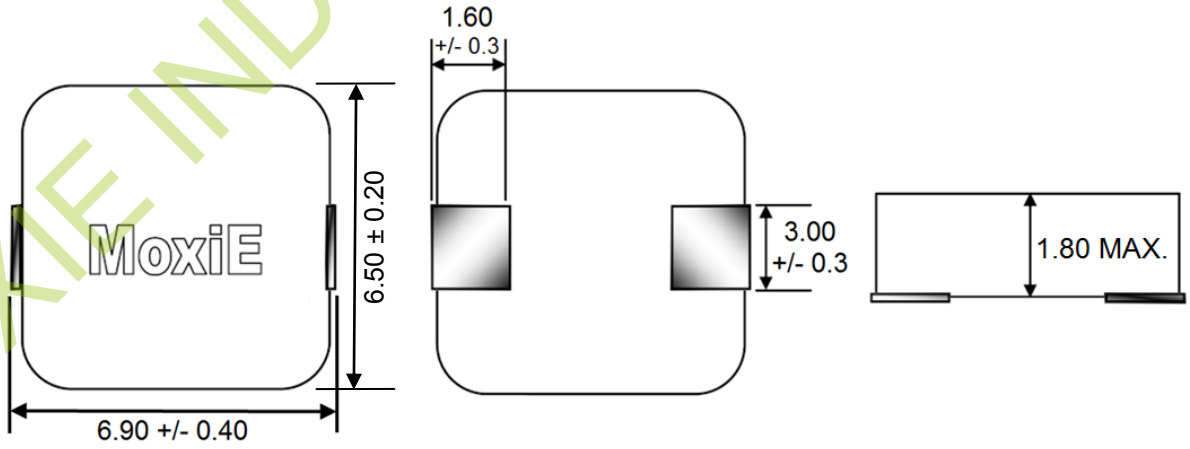
MoxiE® INDUCTOR CORPORATION

High Current Low Profile Surface Mount Power Inductors

- Low cost.
- High current iron powdered core.
- Low profile package design.
- Industrial operating temperature: -55°C to +125°C.
- Shielded construction.
- Tape & Reel packaging available.
- MoxiE custom designs available.
- RoHS compliant.

NOTES

MECHANICAL DIMENSIONS



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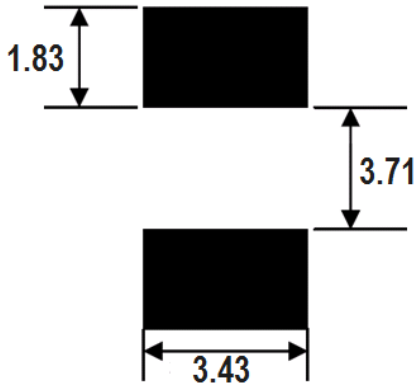
LANDING PATTERN



ELECTRICAL SPECIFICATIONS

MoxiE Part Number	Initial Inductance (µH) Idc = 0A	Tolerance (%)	Test Frequency	Irms (A) Maximum	Isat (A) Maximum	RDC @ 25°C (mΩ) Maximum	RDC @ 25°C (mΩ) Typical
MOX-SPI-2525A-R10M	0.10	20%	100 kHz / 1V	18.0	40.0	3.30	3.00
MOX-SPI-2525A-R15M	0.15	20%	100 kHz / 1V	15.0	38.0	5.10	4.70
MOX-SPI-2525A-R20M	0.20	20%	100 kHz / 1V	14.0	30.0	5.50	5.20
MOX-SPI-2525A-R33M	0.33	20%	100 kHz / 1V	12.0	20.0	6.80	6.50
MOX-SPI-2525A-R47M	0.47	20%	100 kHz / 1V	11.0	18.0	9.20	8.30
MOX-SPI-2525A-R68M	0.68	20%	100 kHz / 1V	9.00	17.5	13.80	12.50
MOX-SPI-2525A-R82M	0.82	20%	100 kHz / 1V	8.00	17.0	15.70	13.70
MOX-SPI-2525A-1R0M	1.00	20%	100 kHz / 1V	7.00	14.0	18.20	17.40
MOX-SPI-2525A-1R5M	1.50	20%	100 kHz / 1V	4.00	11.5	33.80	32.50
MOX-SPI-2525A-2R2M	2.20	20%	100 kHz / 1V	3.75	11.0	45.80	40.20
MOX-SPI-2525A-3R3M	3.30	20%	100 kHz / 1V	3.50	10.5	60.00	55.80
MOX-SPI-2525A-4R7M	4.70	20%	100 kHz / 1V	3.25	8.25	77.90	75.50

- Heat Rating: DC current (A) that will cause an approximate ΔT of 40°C.
- Saturation: DC current (A) that will cause Lo to drop approximately 20%.
- Packaging: Tape & Reel.
- RoHS Compliant.
- The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating condition Circuit design 125°C under worst case operating conditions.
- Component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- MoxiE Inductor Corporation specifications are subject to change without notice.