MOX-SPI-2525B SERIES

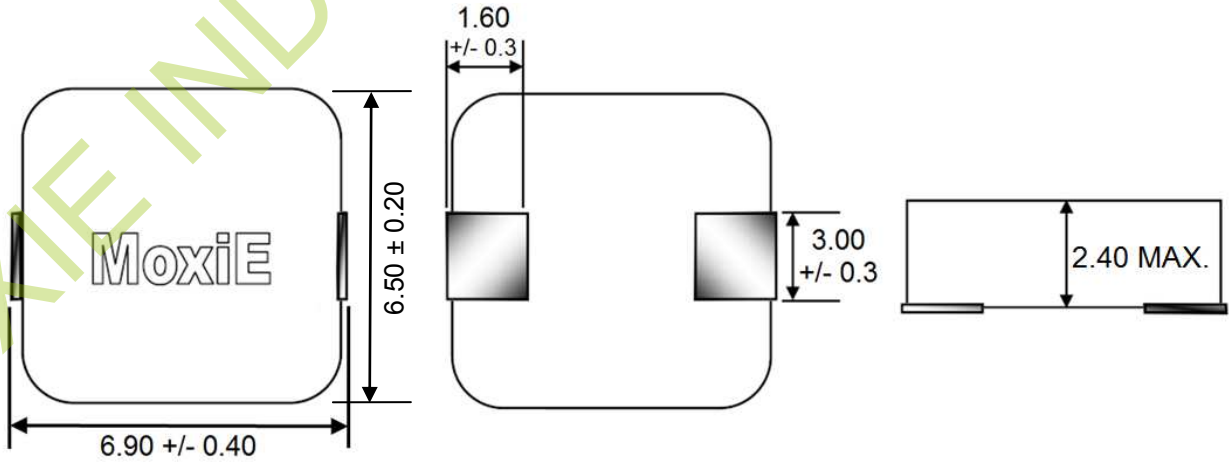
MoxiE® INDUCTOR CORPORATION

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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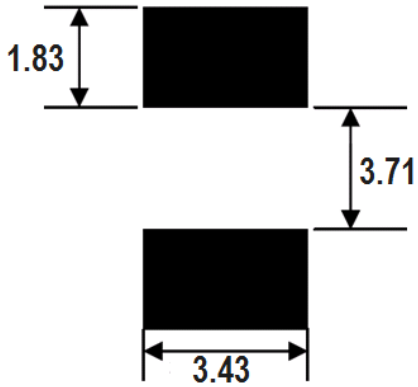
LANDING PATTERN



ELECTRICAL SPECIFICATIONS

MoxiE Part Number	Initial Inductance (µH) Idc = 0A	Tolerance (%)	Test Frequency	Irms (A) Maximuim	Isat (A) Maximum	RDC @ 25°C (mΩ) Maximum	RDC @ 25°C (mΩ) Typical
MOX-SPI-2525B-R10M	0.10	20%	100 kHz / 1V	30.0	50.0	1.60	1.40
MOX-SPI-2525B-R22M	0.22	20%	100 kHz / 1V	21.0	35.0	3.10	2.80
MOX-SPI-2525B-R33M	0.33	20%	100 kHz / 1V	18.5	22.0	4.00	3.50
MOX-SPI-2525B-R47M	0.47	20%	100 kHz / 1V	13.5	20.0	6.30	5.90
MOX-SPI-2525B-R68M	0.68	20%	100 kHz / 1V	11.0	18.0	9.30	8.60
MOX-SPI-2525B-R82M	0.82	20%	100 kHz / 1V	10.0	17.0	11.60	10.40
MOX-SPI-2525B-1R0M	1.00	20%	100 kHz / 1V	9.00	16.0	14.10	12.90
MOX-SPI-2525B-1R5M	1.50	20%	100 kHz / 1V	7.50	15.0	21.20	18.20
MOX-SPI-2525B-2R2M	2.20	20%	100 kHz / 1V	6.50	14.0	34.00	27.50
MOX-SPI-2525B-3R3M	3.30	20%	100 kHz / 1V	5.00	13.0	51.50	35.80
MOX-SPI-2525B-4R7M	4.70	20%	100 kHz / 1V	450	10.0	62.50	44.60
MOX-SPI-2525B-6R8	6.80	20%	100 kHz / 1V	3.50	9.00	94.00	71.50
MOX-SPI-2525B-8R2M	8.20	20%	100 kHz / 1V	3.00	8.00	105.00	83.10
MOX-SPI-2525B-100M	10.00	20%	100 kHz / 1V	2.50	7.00	127.00	114.80

- 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.