MOX-SPI-1616 SERIES

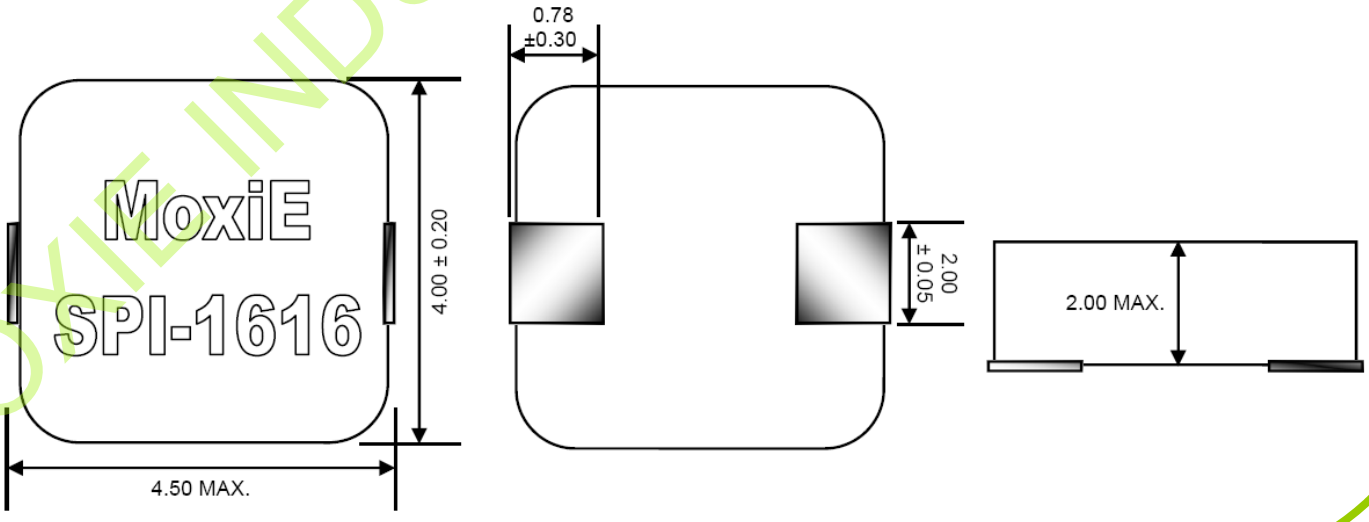
MoxiE® INDUCTOR CORPORATION

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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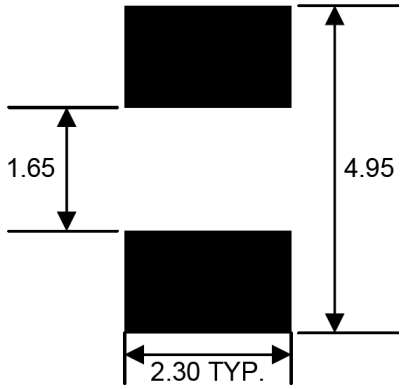
LANDING PATTERN



ELECTRICAL SPECIFICATIONS

MoxiE Part Number	Initial Inductance (µH) Idc = 0A	Tolerance (%)	Test Frequency	DCR (Ω) Typical	DCR (Ω) Maximum	Isat (A) Maximum	Irms (A) Maximum
MOX-SPI-1616-R10M	0.10	20%	100KHZ, 0.1V	0.0045	0.005	35.00	11.50
MOX-SPI-1616-R22M	0.22	20%	100KHZ, 0.1V	0.0073	0.008	25.00	9.50
MOX-SPI-1616-R47M	0.47	20%	100KHZ, 0.1V	0.015	0.017	11.50	5.70
MOX-SPI-1616-R68M	0.68	20%	100KHZ, 0.1V	0.026	0.032	9.75	4.50
MOX-SPI-1616-1R0M	1.00	20%	100KHZ, 0.1V	0.032	0.036	8.50	3.75
MOX-SPI-1616-2R2M	2.20	20%	100KHZ, 0.1V	0.079	0.090	6.00	2.85

- 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.