

MOX-SPI-2525 SERIES



High Current Low Profile Surface Mount Power Inductors

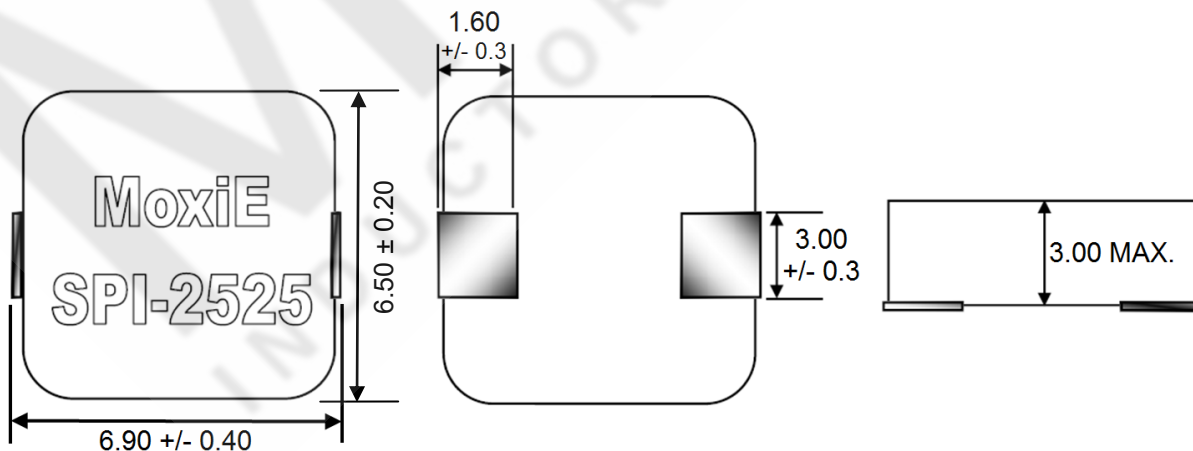
- Low cost.
- High current iron powdered core.
- Frequency range up to 5.00MHz.
- Low profile package design.
- Industrial operating temperature: -55°C to $+125^{\circ}\text{C}$.
- Shielded construction.
- Tape & Reel packaging available.
- MoxiE custom designs available.
- RoHS compliant.



NOTES



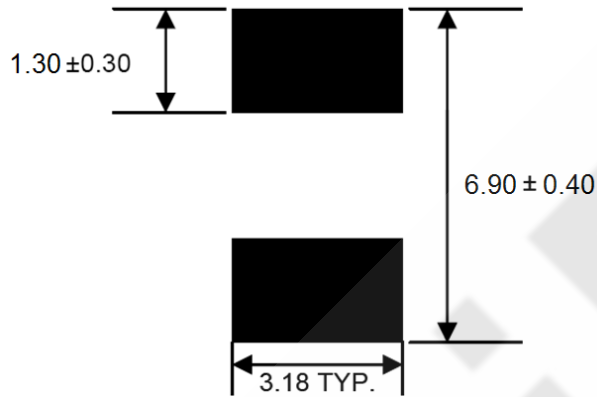
MECHANICAL DIMENSIONS



MOX-SPI-2525 SERIES



LANDING PATTERN



ELECTRICAL SPECIFICATIONS

MoxiE Part Number	Initial Inductance (µH) I _{dc} = 0A	Tolerance (%)	Test Frequency	I _{rms} (A) Maximum	I _{sat} (A) Maximum	RDC @ 25°C (mΩ) Maximum	RDC @ 25°C (mΩ) Typical
MOX-SPI-2525-R10M	0.10	20%	100KHZ, 0.5V	31.50	61.00	1.70	1.50
MOX-SPI-2525-R15M	0.15	20%	100KHZ, 0.5V	25.00	52.00	2.50	1.90
MOX-SPI-2525-R20M	0.20	20%	100KHZ, 0.5V	23.00	42.00	3.00	2.40
MOX-SPI-2525-R22M	0.22	20%	100KHZ, 0.5V	22.00	40.00	2.80	2.50
MOX-SPI-2525-R33M	0.33	20%	100KHZ, 0.5V	20.00	32.00	3.90	3.50
MOX-SPI-2525-R47M	0.47	20%	100KHZ, 0.5V	17.00	28.00	4.20	4.00
MOX-SPI-2525-R68M	0.68	20%	100KHZ, 0.5V	15.00	26.00	5.50	5.00
MOX-SPI-2525-R82M	0.82	20%	100KHZ, 0.5V	12.00	24.00	8.00	6.70
MOX-SPI-2525-1R0M	1.00	20%	100KHZ, 0.5V	10.00	22.00	10.00	9.00
MOX-SPI-2525-1R5M	1.50	20%	100KHZ, 0.5V	8.50	18.00	15.00	14.00
MOX-SPI-2525-2R2M	2.20	20%	100KHZ, 0.5V	7.00	16.00	20.00	18.00
MOX-SPI-2525-3R3M	3.30	20%	100KHZ, 0.5V	6.00	13.00	30.00	28.00
MOX-SPI-2525-4R7M	4.70	20%	100KHZ, 0.5V	5.00	10.00	40.00	37.00
MOX-SPI-2525-6R8M	6.80	20%	100KHZ, 0.5V	4.50	8.00	60.00	54.00
MOX-SPI-2525-8R2M	8.20	20%	100KHZ, 0.5V	4.00	7.50	70.00	64.00
MOX-SPI-2525-100M	10.00	20%	100KHZ, 0.5V	3.00	7.00	105.00	102.00

- Heat Rating: DC current (A) that will cause an approximate ΔT of 40°C.
- Saturation: DC current (A) that will cause L_o 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.