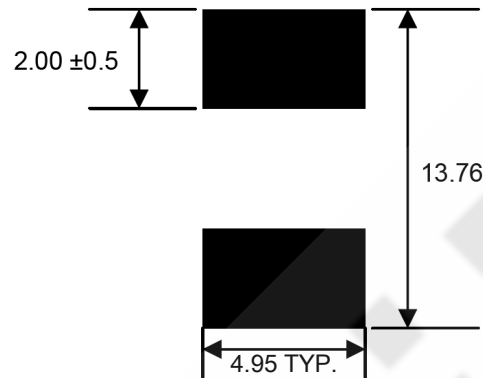


MOX-SPI-5050L SERIES



LANDING PATTERN



ELECTRICAL SPECIFICATIONS

MoxiE Part Number	Initial Inductance (μH) $I_{dc} = 0\text{A}$	Tolerance (%)	Test Frequency	I_{rms} (A) Maximum	I_{sat} (A) Maximum	RDC (Ω) Typical	RDC (Ω) Maximum
MOX-SPI-5050L-R10M	0.10	20%	100KHZ, 0.1V	43.0	80.0	0.0008	0.00095
MOX-SPI-5050L-R22M	0.22	20%	100KHZ, 0.1V	39.0	65.0	0.0010	0.0012
MOX-SPI-5050L-R33M	0.33	20%	100KHZ, 0.1V	37.0	62.0	0.0012	0.0014
MOX-SPI-5050L-R47M	0.47	20%	100KHZ, 0.1V	33.0	55.0	0.0016	0.0019
MOX-SPI-5050L-R68M	0.68	20%	100KHZ, 0.1V	29.0	49.0	0.0021	0.0024
MOX-SPI-5050L-R82M	0.82	20%	100KHZ, 0.1V	25.0	44.0	0.0026	0.0030
MOX-SPI-5050L-1R0M	1.00	20%	100KHZ, 0.1V	25.0	40.0	0.0032	0.0033
MOX-SPI-5050L-1R5M	1.50	20%	100KHZ, 0.1V	20.0	35.0	0.0050	0.0052
MOX-SPI-5050L-2R2M	2.20	20%	100KHZ, 0.1V	17.0	29.0	0.0070	0.0078
MOX-SPI-5050L-3R3M	3.30	20%	100KHZ, 0.1V	13.0	27.0	0.0110	0.011
MOX-SPI-5050L-4R7M	4.70	20%	100KHZ, 0.1V	11.0	24.0	0.0140	0.014
MOX-SPI-5050L-6R8M	6.80	20%	100KHZ, 0.1V	10.0	18.0	0.0192	0.021
MOX-SPI-5050L-100M	10.00	20%	100KHZ, 0.1V	8.00	14.0	0.0302	0.032

- I_{rms} : DC current (A) that will cause an approximate ΔT of 40°C .
- Saturation: DC current (A) that will cause L_0 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.