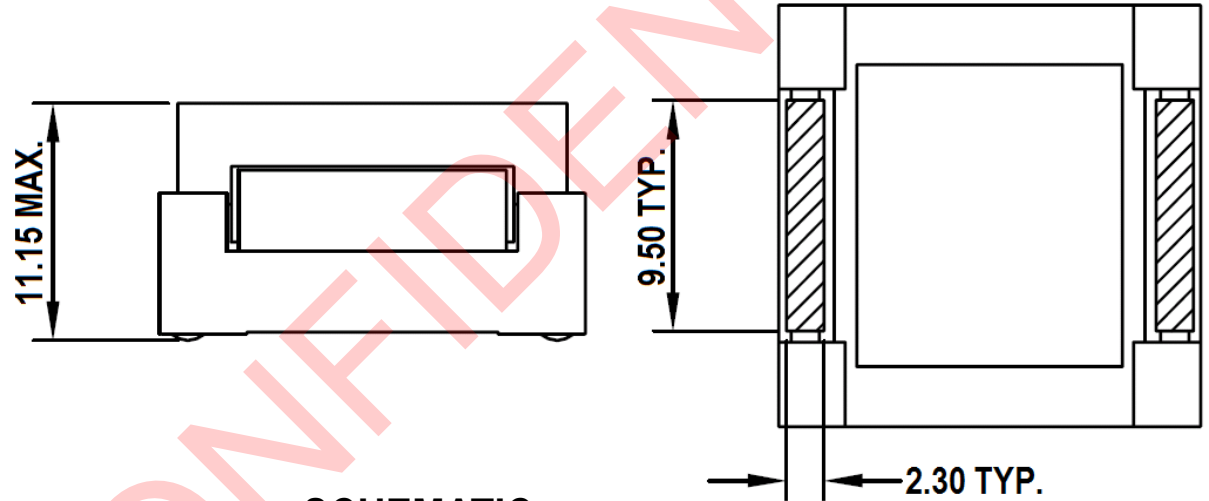
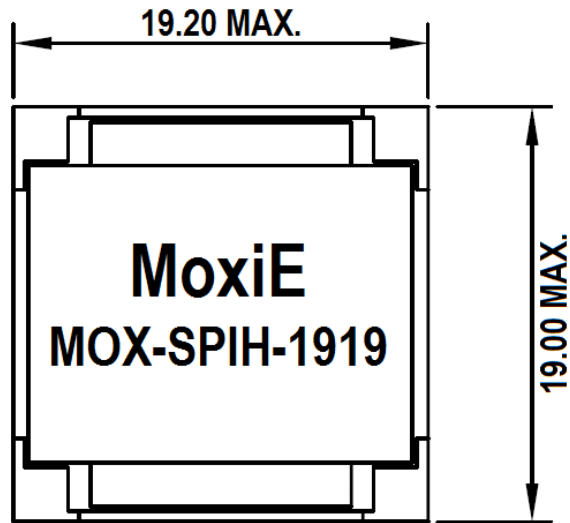
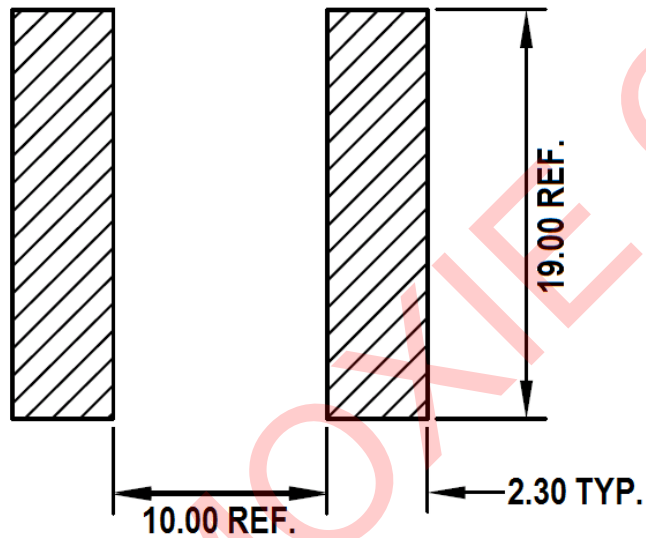


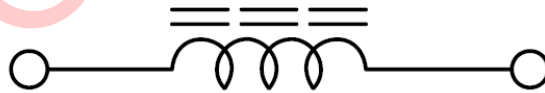
MECHANICAL



PCB PATTERN



SCHEMATIC



MOXIE INDUCTOR CORPORATION

(888)535.5207 WWW.MOXIEINDUCTORS.COM

ULTRA HIGH CURRENT POWER INDUCTORS

COPPER FOIL TECHNOLOGY

MOXIE PART NUMBER: MOX-SPIH-1919 SERIES

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REV. A

DWG NO: MOXSPIH1919

ELECTRICAL

MOXIE PART NUMBER	RATED INDUCTANCE (μH)	OCL (1) ($\mu\text{H} \pm 20\%$)	IRMS (2) AMPERES (TYP.)	ISAT (3) AMPERES (TYP.)	DCR (4) OHMS (MAX.)	VOLTS (5) μSEC
MOX-SPIH-1919-R47M	0.47	0.52	52.90	63.75	0.0006	6.87
MOX-SPIH-1919-R68M	0.68	0.63	52.90	50.00	0.0006	6.87
MOX-SPIH-1919-1R0M	1.00	1.15	33.00	42.50	0.0013	10.31
MOX-SPIH-1919-2R2M	2.20	2.00	24.30	31.90	0.0023	13.75
MOX-SPIH-1919-4R7M	4.70	4.55	17.00	21.25	0.0046	20.62
MOX-SPIH-1919-6R0M	6.00	6.00	17.00	16.50	0.0046	20.62

1) Open Circuit Inductance Test Parameters: 300kHz, 0.250 Vrms, 0.0 Adc

2) DC current for an approximate temperature change of 40°C without core loss. (Derating is necessary for AC currents.)

3) Peak current for approximately 30% roll-off

4) Values @ 20°C

5) Applied Volt-Time product (V- μS) across the inductor. This value represents the applied V- μS at 300KHz necessary to generate a core loss equal to 10% of the total losses for 40°C temperature rise.

MOXIE NOTES:

- COPPER FOIL TECHNOLOGY THAT ADDS HIGHER RELIABILITY OVER TRADITIONAL MAGNET WIRE FOR HIGHER FREQUENCY CIRCUIT DESIGNS.
- HIGH PERFORMANCE FERRITE CORE MATERIAL.
- ALL DIMENSIONS IN MILLIMETERS.
- RoHS COMPLIANT.
- OPERATING TEMPERATURE RANGE: -40°C TO +85°C.
- STORAGE TEMPERATURE RANGE: -55°C TO +125°C.
- SOLDER REFLOW TEMPERATURE: +260°C MAXIMUM FOR TEN (10) SECONDS.
- MOXIE INDUCTOR CORPORATION CUSTOM DESIGNS AVAILABLE.
- PACKAGING: TAPE & REEL.
- MOXIE RECOMMENDS THAT THE PART NOT EXCEED +125°C UNDER WORST CASE CONDITIONS.
- MOXIE INDUCTOR CORPORATION SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

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REV. A

DWG NO: MOXSPIH1919