

# MOX-SPHC-1305



**MoxiE**<sup>®</sup>  
INDUCTOR CORPORATION

## Ultra High Current Surface Mount Power Inductors

MoxiE's MOX-SPHC-1305 series of surface mount ultra high current inductors feature a low profile package with shielded construction.

### Features:

- Low cost.
- RoHS compliant.
- Handles high transient current spikes without any saturation.
- Low profile package design.
- Composite construction provides ultra low buzz noise.
- MoxiE Inductor Corporation custom designs available.

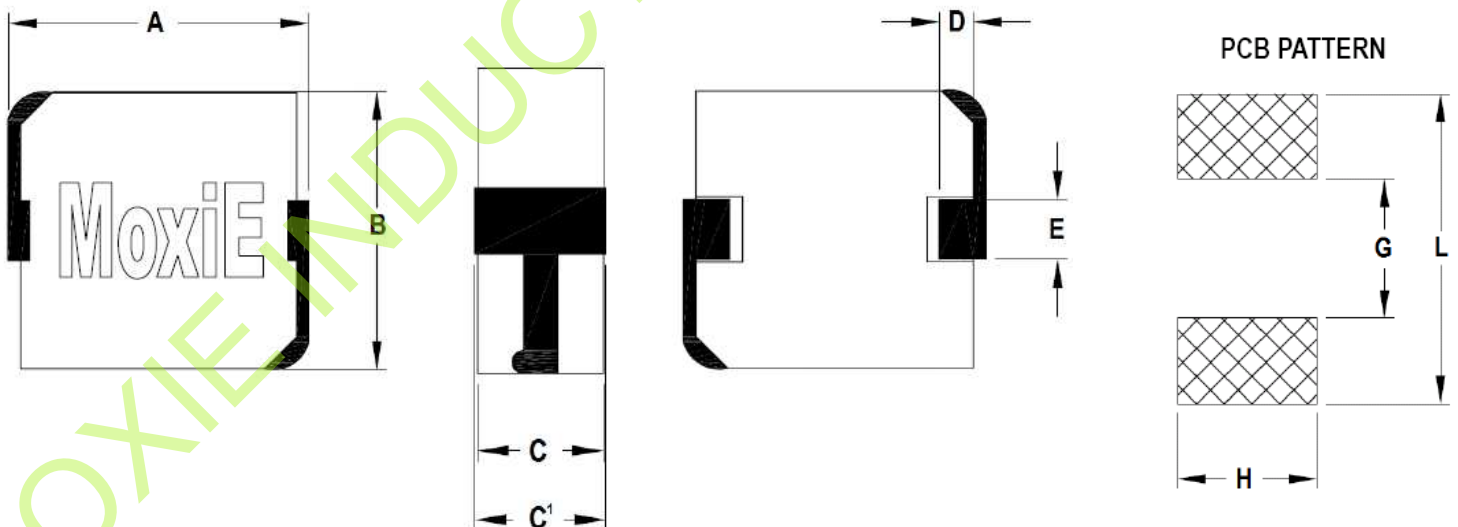


## PART NUMBERS

MOXIE PART NUMBER	A	B	C' (MAX.)	C (MAX.)	D	E	G (REF.)	H (REF.)	L (REF.)
MOX-SPHC-1305	13.20 ± 0.5	12.90 ± 0.5	5.10	5.00	2.50 ± 0.5	3.00 ± 0.5	7.00	4.50	15.00



## MECHANICAL DIMENSIONS



# MOX-SPHC-1305



## ELECTRICAL SPECIFICATIONS

MOXIE PART NUMBER	INDUCTANCE (μH) ±20% @ 0ADC	HEAT RATING CURRENT DC AMPS (TYP.)	SATURATION CURRENT DC AMPS (TYP.)	DCR (mΩ) @ 25°C (TYP.)	DCR (mΩ) @ 25°C (MAX.)
MOX-SPHC-1305-R10M	0.10	55.0	118.0	0.53	0.60
MOX-SPHC-1305-R22M	0.22	51.0	110.0	0.64	0.80
MOX-SPHC-1305-R33M	0.33	42.0	80.0	0.85	1.10
MOX-SPHC-1305-R47M	0.47	38.0	65.0	1.1	1.30
MOX-SPHC-1305-R56M	0.56	36.0	55.0	1.30	1.50
MOX-SPHC-1305-R68M	0.68	34.0	54.0	1.50	1.70
MOX-SPHC-1305-R82M	0.82	31.0	53.0	2.00	2.30
MOX-SPHC-1305-1R0M	1.00	29.0	50.0	2.10	2.50
MOX-SPHC-1305-1R5M	1.50	23.0	48.0	3.40	4.10
MOX-SPHC-1305-1R8M	1.80	19.0	40.0	4.20	4.90
MOX-SPHC-1305-2R2M	2.20	20.0	33.0	4.60	5.50
MOX-SPHC-1305-3R3M	3.30	16.0	32.0	7.70	9.20
MOX-SPHC-1305-4R7M	4.70	13.0	28.0	12.90	15.00
MOX-SPHC-1305-5R6M	5.60	11.5	23.0	14.50	16.50
MOX-SPHC-1305-6R8M	6.80	11.0	22.0	15.50	18.50
MOX-SPHC-1305-7R8M	7.80	10.0	19.0	17.40	20.50
MOX-SPHC-1305-8R2M	8.20	9.5	18.0	18.80	22.50
MOX-SPHC-1305-100M	10.00	9.0	16.0	21.40	25.50



## PACKAGING

MOXIE PART NUMBER	PACKAGING	QUANTITY PER REEL
MOX-SPHC-1305	TAPE & REEL	500 PIECES

### MOXIE NOTES:

OPERATING TEMPERATURE: -55°C TO +125°C.

STORAGE TEMPERATURE: -55°C TO +125°C.

HUMIDITY RANGE: 50~60% RH.

ALL TEST DATA AT 25°C.

HEAT RATED CURRENT (IRMS) WILL CAUSE THE COIL TEMPERATURE TO RISE APPROXIMATELY 40°C ABOVE 25°C AMBIENT WITHOUT ANY CORE LOSS.

SATURATION CURRENT (ISAT) WILL CAUSE L<sub>o</sub> TO DROP APPROXIMATELY 20%.

PART TEMPERATURE (AMBIENT+TEMP. RISE): SHOULD NOT EXCEED 125°C UNDER WORST CASE CONDITIONS.

MOXIE INDUCTOR CORPORATION SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.