MOX-SPHC-1303

Ultra High Current Surface Mount Power Inductors

MoxiE's MOX-SPHC-1303 series of surface mount ultra high current inductors feature a low profile package with shielded construction.

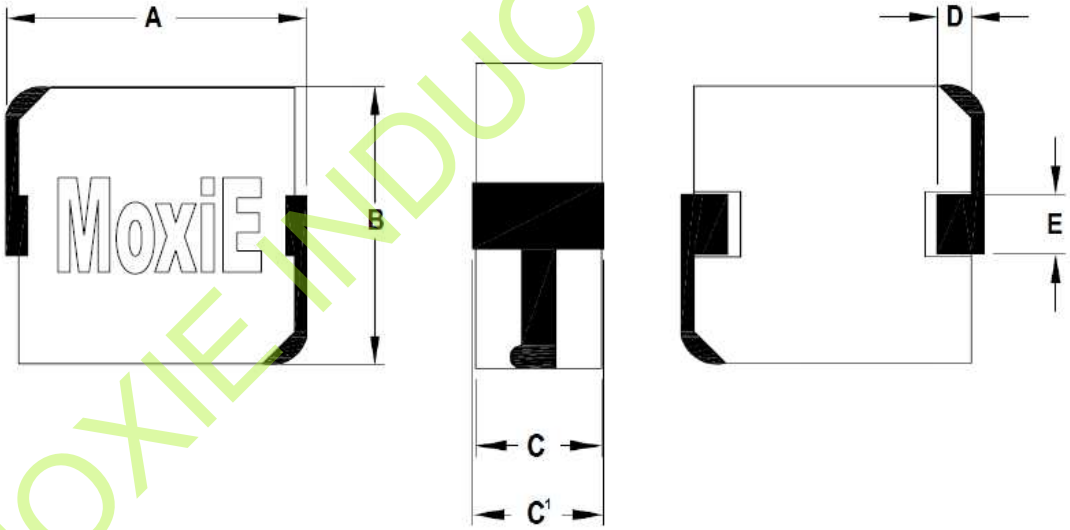
Features:

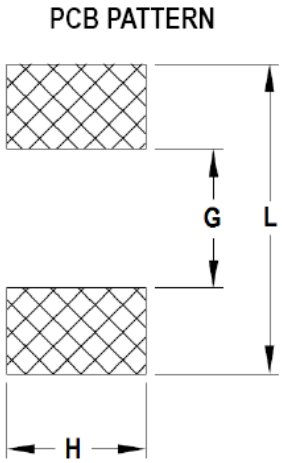
- Low cost.
- RoHS compliant.
- Handles high transient current spikes without any saturation.
- Low profile package design.
- Composite construction provides ultra low buzz noise.
- MoxiE Inductor Corporation custom designs available.

PART NUMBERS

MOXIE PART NUMBER	A	B	C¹ (MAX.)	C (MAX.)	D	E	G (REF.)	H (REF.)	L (REF.)
MOX-SPHC-1303	13.20 ± 0.5	12.90 ± 0.5	3.60	3.50	2.50 ± 0.5	3.00 ± 0.5	7.00	4.50	15.00

MECHANICAL DIMENSIONS





MOX-SPHC-1303

MoxiE® INDUCTOR CORPORATION

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-1303-R10M	0.10	43.0	84.0	0.80	0.95
MOX-SPHC-1303-R15M	0.15	41.0	75.0	1.00	1.20
MOX-SPHC-1303-R22M	0.22	38.5	65.0	1.10	1.30
MOX-SPHC-1303-R33M	0.33	36.5	62.0	1.28	1.50
MOX-SPHC-1303-R47M	0.47	32.0	55.0	1.60	2.00
MOX-SPHC-1303-R60M	0.60	29.0	51.0	1.75	2.2
MOX-SPHC-1303-R68M	0.68	28.0	49.0	2.30	2.50
MOX-SPHC-1303-R82M	0.82	25.0	44.0	2.50	3.00
MOX-SPHC-1303-1R0M	1.00	24.0	40.0	3.30	3.50
MOX-SPHC-1303-1R5M	1.50	19.0	35.0	5.10	5.50
MOX-SPHC-1303-1R8M	1.80	16.5	30.0	6.50	7.00
MOX-SPHC-1303-2R2M	2.20	16.0	29.0	7.20	8.00
MOX-SPHC-1303-3R3M	3.30	12.0	27.0	11.00	12.00
MOX-SPHC-1303-4R7M	4.70	10.0	24.0	14.30	15.00
MOX-SPHC-1303-5R6M	5.60	9.5	19.0	18.30	19.00
MOX-SPHC-1303-6R8M	6.80	9.0	18.0	19.80	22.00
MOX-SPHC-1303-8R2M	8.20	8.5	16.0	24.70	28.00
MOX-SPHC-1303-100M	10.00	7.0	14.0	30.30	34.00

PACKAGING

MOXIE PART NUMBER	PACKAGING	QUANTITY PER REEL
MOX-SPHC-1303	TAPE & REEL	600 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 Lo TO DROP APPROXIMATELY 20%.
PART TEMPERATURE (AMBIENT+TEMP. RISE): SHOULD NOT EXCEED 125°C UNDER WORST CASE CONDITIONS.
SOME INDUCTANCE VALUES UNDER MOXIE DEVELOPMENT.
MOXIE INDUCTOR CORPORATION SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.