

MOX-SPHC-1104



MoxiE[®]
INDUCTOR CORPORATION

Ultra High Current Surface Mount Power Inductors

MoxiE's MOX-SPHC-1104 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.

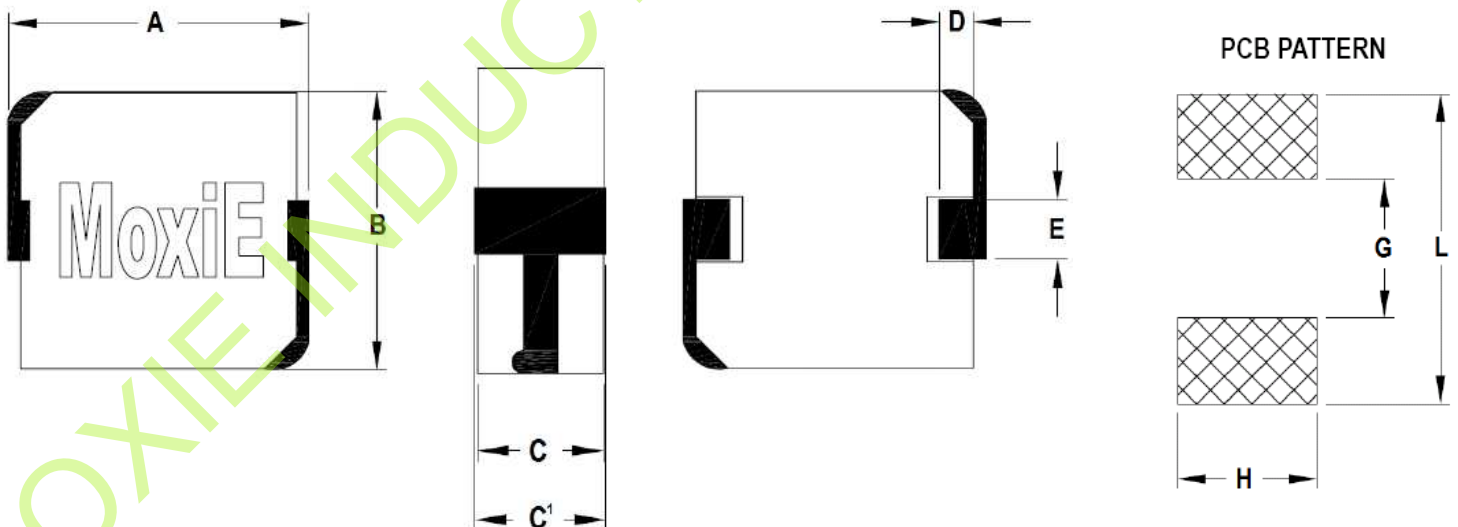


PART NUMBERS

MOXIE PART NUMBER	A	B	C ¹ (MAX.)	C (MAX.)	D	E	G (REF.)	H (REF.)	L (REF.)
MOX-SPHC-1104	11.50 ± 0.5	10.30 ± 0.2	4.10	4.00	2.20 ± 0.5	2.90 ± 0.5	5.40	4.50	12.40



MECHANICAL DIMENSIONS



MOX-SPHC-1104



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-1104-R10M	0.19	40.00	46.00	0.70	0.81
MOX-SPHC-1104-R15M	0.22	33.00	44.00	0.85	0.96
MOX-SPHC-1104-R22M	0.24	33.00	43.00	0.83	0.95
MOX-SPHC-1104-R33M	0.36	32.00	30.00	1.05	1.14
MOX-SPHC-1104-R47M	0.47	30.00	30.00	1.52	1.65
MOX-SPHC-1104-R60M	0.56	32.00	22.00	1.58	1.78
MOX-SPHC-1104-R68M	0.78	27.00	21.00	1.78	1.90
MOX-SPHC-1104-R82M	1.00	25.00	20.00	2.30	2.45
MOX-SPHC-1104-1R0M	1.80	17.00	16.00	4.50	4.90
MOX-SPHC-1104-1R5M	2.00	16.00	14.00	5.20	5.70
MOX-SPHC-1104-1R8M	4.70	9.50	7.60	12.90	14.10
MOX-SPHC-1104-2R2M	6.80	9.00	7.50	17.50	19.10
MOX-SPHC-1104-3R3M	10.00	7.50	7.10	27.50	30.20
MOX-SPHC-1104-4R7M	15.00	6.25	6.00	40.80	44.50
MOX-SPHC-1104-5R6M	22.00	5.00	4.50	60.30	65.50
MOX-SPHC-1104-6R8M	33.00	4.40	4.00	87.40	93.20
MOX-SPHC-1104-8R2M	47.00	3.30	3.00	131.50	144.50
MOX-SPHC-1104-100M	100.00	2.50	2.25	248.50	268.50



PACKAGING

MOXIE PART NUMBER	PACKAGING	QUANTITY PER REEL
MOX-SPHC-1104	TAPE & REEL	900 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 L₀ 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.