

MOX-SPHC-0703

Ultra High Current Surface Mount Power Inductors

MoxiE's MOX-SPHC-0703 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.

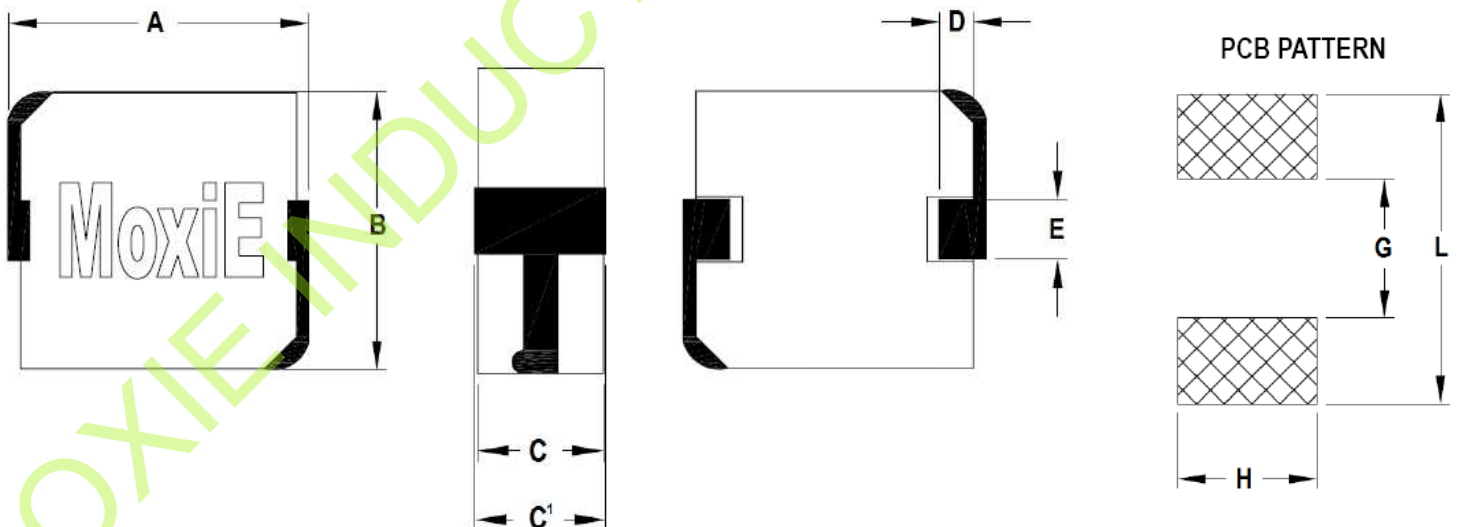


PART NUMBERS

MOXIE PART NUMBER	A	B	C ¹ (MAX.)	C (MAX.)	D	E	G (REF.)	H (REF.)	L (REF.)
MOX-SPHC-0703	6.86 ± 0.5	6.86 ± 0.5	3.10	3.00	1.60 ± 0.5	2.10 ± 0.5	3.70	3.50	8.70



MECHANICAL DIMENSIONS



MOX-SPHC-0703



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-0703-R10M	0.10	32.50	60.00	1.50	1.70
MOX-SPHC-0703-R15M	0.15	26.00	52.00	1.85	2.50
MOX-SPHC-0703-R20M	0.20	24.00	41.50	2.40	3.00
MOX-SPHC-0703-R22M	0.22	23.00	41.00	2.50	2.70
MOX-SPHC-0703-R33M	0.33	21.00	30.00	3.45	3.90
MOX-SPHC-0703-R47M	0.47	17.50	26.00	4.00	4.10
MOX-SPHC-0703-R68M	0.68	15.50	25.50	5.00	5.40
MOX-SPHC-0703-R82M	0.82	13.00	24.00	6.60	8.00
MOX-SPHC-0703-1R0M	1.00	11.00	22.00	8.90	10.00
MOX-SPHC-0703-1R5M	1.50	9.00	18.00	14.00	14.50
MOX-SPHC-0703-2R2M	2.20	8.00	14.00	17.50	20.00
MOX-SPHC-0703-3R3M	3.30	6.00	13.50	27.50	29.50
MOX-SPHC-0703-4R7M	4.70	5.50	11.00	37.00	40.00
MOX-SPHC-0703-6R8M	6.80	4.50	8.50	54.00	60.00
MOX-SPHC-0703-8R2M	8.20	4.00	7.50	63.00	68.00
MOX-SPHC-0703-100M	10.00	3.00	7.00	101.00	105.00



PACKAGING

MOXIE PART NUMBER	PACKAGING	QUANTITY PER REEL
MOX-SPHC-0703	TAPE & REEL	1000 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_o 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.