

MOX-SMHC4 SERIES

MoxiE[®]
INDUCTOR CORPORATION

Surface Mount High Current Unshielded Power Inductors

MoxiE's MOX-SMHC4 series of surface mount high current power inductors are specially engineered for high current, low voltage DC-DC converter applications. The industrial grade rugged design provides current ranges normally only available with larger packages.

Features:

- Low cost.
- High current & low voltage.
- RoHS compliant.
- MoxiE Inductor corporation custom designs available.

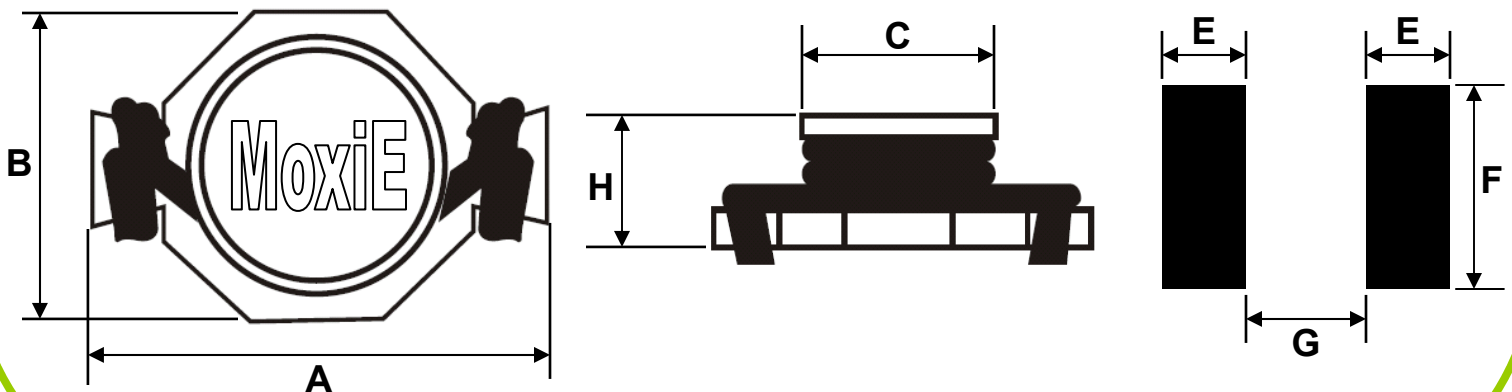


PART NUMBERS

MOXIE PART NUMBER	A (MAX.)	B (MAX.)	C (MAX.)	H (MAX.)	E (REF.)	F (REF.)	G (REF.)
MOX-SMHC4	22.10	15.00	6.00	7.80	4.30	12.00	13.50



MECHANICAL DIMENSIONS





ELECTRICAL SPECIFICATIONS @ 25°C

MoxiE Part Number	Inductance (μH)	OCL (μH ± 20%)	IRMS (Amps)	ISAT (Amps)	DCR (Ω Max.)
MOX-SMHC4-R47M	0.47	0.473	19.6	52.3	0.0019
MOX-SMHC4-1R0M	1.0	0.916	17.5	38.0	0.0023
MOX-SMHC4-1R5M	1.5	1.52	13.7	29.4	0.0039
MOX-SMHC4-2R2M	2.2	2.27	12.5	24.2	0.0048
MOX-SMHC4-3R3M	3.3	3.14	11.4	21.2	0.0057
MOX-SMHC4-4R7M	4.7	5.34	8.7	15.8	0.0093
MOX-SMHC4-6R8M	6.8	6.66	8.5	14.5	0.0100
MOX-SMHC4-100M	10.0	9.77	6.9	11.7	0.0150
MOX-SMHC4-150M	15.0	15.61	5.8	9.6	0.0230
MOX-SMHC4-220M	22.0	22.61	4.7	7.9	0.0340
MOX-SMHC4-330M	33.0	34.30	3.8	6.6	0.0520
MOX-SMHC4-470M	47.0	48.10	3.4	5.7	0.0740
MOX-SMHC4-680M	68.0	69.14	2.5	4.5	0.1200
MOX-SMHC4-101M	100.0	99.42	2.3	3.8	0.1700
MOX-SMHC4-151M	150.0	146.90	1.8	3.4	0.2392
MOX-SMHC4-221M	220.0	221.40	1.5	2.6	0.3571
MOX-SMHC4-331M	330.0	330.00	1.2	2.3	0.5800
MOX-SMHC4-471M	470.0	470.10	0.94	1.9	0.8330



PACKAGING

MOXIE PART NUMBER	Packaging	Reel Size	Quantity Per Reel
MOX-SMHC4	Tape & Reel	330 x 32	350

MOXIE NOTES:

- Inductance instrument testing : HP4286A/CH1062A LCR meter.
- Inductance test condition: 100KHz @ 1KHz.
- DCR instrument testing: TH2512B or MoxiE equivalent DCR testing equipment.
- Rated current testing: VR7210 & VR113H.
- Rated current definition: Inductance drop by 25% or when temperature rises by 40°C (the lesser of the minimum as the rated current.)
- Operating temperature: -40°C to +85°C.
- Storage temperature: -40°C to +125°C.
- Moxie Inductor Corporation specifications are subject to change without notice.