

# MOX-SMHC2 SERIES

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

## Surface Mount High Current Unshielded Power Inductors

MoxiE's MOX-SMHC2 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.

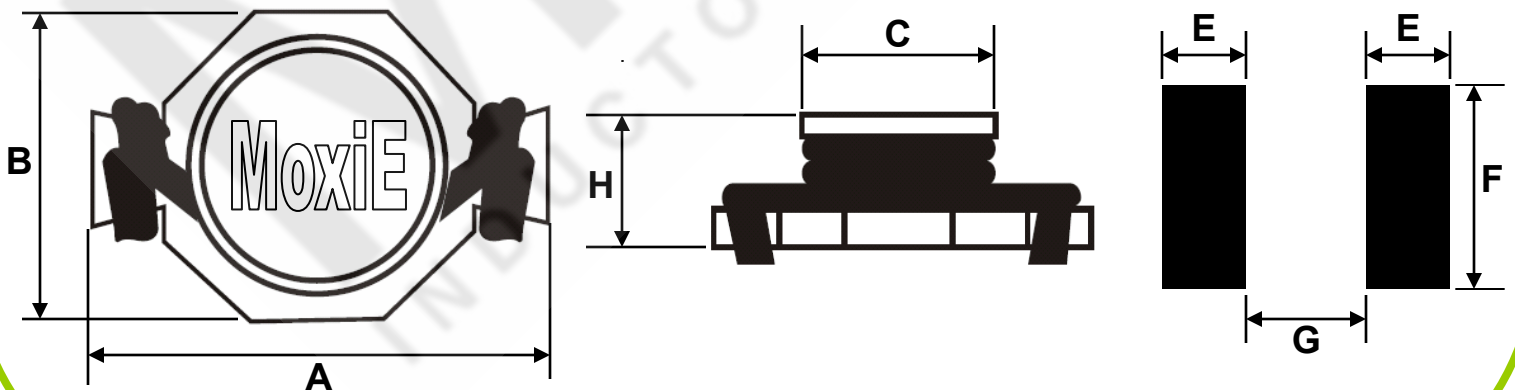


## PART NUMBERS

MOXIE PART NUMBER	A (MAX.)	B (MAX.)	C (MAX.)	H (MAX.)	E (REF.)	F (REF.)	G (REF.)
MOX-SMHC2	13.97	10.41	4.00	6.00	2.30	7.30	9.40



## MECHANICAL DIMENSIONS





## ELECTRICAL SPECIFICATIONS @ 25°C

MoxiE Part Number	Inductance (μH)	OCL (μH ± 20%)	IRMS (Amps)	ISAT (Amps)	DCR (Ω Max.)
MOX-SMHC2-R47M	0.47	0.595	10.9	11.8	0.0049
MOX-SMHC2-1R0M	1.0	1.00	9.7	10.00	0.0065
MOX-SMHC2-1R5M	1.5	1.46	8.5	8.10	0.0081
MOX-SMHC2-2R2M	2.2	2.56	7.6	6.4	0.0107
MOX-SMHC2-3R3M	3.3	3.23	6.7	5.3	0.0128
MOX-SMHC2-4R7M	4.7	4.77	5.6	4.4	0.0165
MOX-SMHC2-6R8M	6.8	6.63	5.4	3.8	0.0202
MOX-SMHC2-100M	10.0	9.73	4.4	3.5	0.0267
MOX-SMHC2-150M	15.0	15.43	3.7	2.6	0.0410
MOX-SMHC2-220M	22.0	22.50	2.9	2.2	0.0617
MOX-SMHC2-330M	33.0	33.13	2.4	1.9	0.0917
MOX-SMHC2-470M	47.0	48.65	1.9	1.5	0.1388
MOX-SMHC2-680M	68.0	68.17	1.8	1.4	0.1787
MOX-SMHC2-820M	82.0	84.1	1.35	1.05	0.2235
MOX-SMHC2-101M	100.0	102.60	1.30	0.98	0.2707
MOX-SMHC2-151M	150.0	150	1.05	0.79	0.4100
MOX-SMHC2-221M	220.0	223	0.782	0.65	0.6717
MOX-SMHC2-331M	330.0	338	0.679	0.525	0.8783
MOX-SMHC2-471M	470.0	471	0.558	0.444	1.31
MOX-SMHC2-681M	680.0	700	0.457	0.375	1.97
MOX-SMHC2-821M	820.0	823	0.428	0.345	2.24
MOX-SMHC2-102M	1000.0	1005	0.372	0.315	2.96



## PACKAGING

MOXIE PART NUMBER	Packaging	Reel Size	Quantity Per Reel
MOX-SMHC2	Tape & Reel	330 x 32	750

### 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.