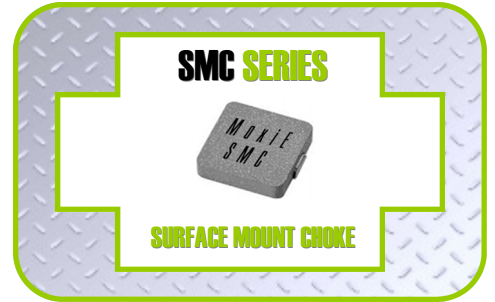


# SMC Series

**MoxiE**  
INDUCTOR CORPORATION

MoxiE's new SMC low profile high current chokes are designed with a low Rdc. It's molded, magnetically shielded construction is industry leading in low noise and ultra high current which makes the SMC series an optimal choice for high density mounting. Packaged with embossed carrier tape suitable for automatic mounting. 100% lead free and RoHS compliant.



## Applications

- POL Converters
- High density DC/DC converters.
- High current VRM/VRD for desktop, notebooks and servers.



## NOTES

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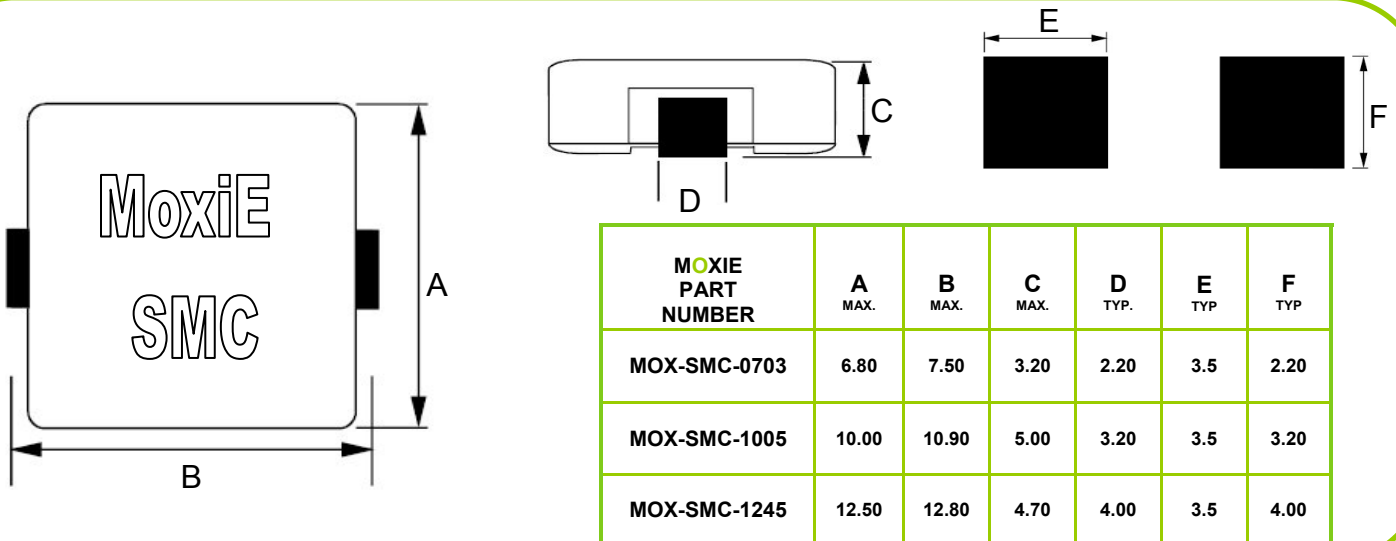
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## MECHANICAL DIMENSIONS





## ELECTRICAL SPECIFICATIONS

MoxiE Part Number	Rated Inductance (μH)	RDC Max. (m Ω)	IDC Max. (A)
MOX-SMC-0703-1R0M	1.00 ± 30% @100 KHz	8.80	7.90
MOX-SMC-0703-1R5M	1.50 ± 30% @100 KHz	9.60	6.50
MOX-SMC-0703-2R2M	2.20 ± 30% @100 KHz	12.00	5.50
MOX-SMC-0703-3R3M	3.30 ± 30% @100 KHz	20.00	4.40
MOX-SMC-0703-4R7M	4.70 ± 30% @100 KHz	31.00	3.50
MOX-SMC-0703-6R8M	6.80 ± 30% @100 KHz	45.00	3.00
MOX-SMC-1005-R33M	0.33 ± 20% @300 KHz	1.20	20.00
MOX-SMC-1005-R56M	0.56 ± 20% @300 KHz	1.86	20.00
MOX-SMC-1245-1R9M	1.90 ± 30% @100 KHz	3.60 ± 20%	13.00
MOX-SMC-1245-2R7M	2.70 ± 30% @100 KHz	4.50 ± 20%	12.00
MOX-SMC-1245-4R2M	4.20 ± 30% @100 KHz	7.40 ± 20%	10.00
MOX-SMC-1245-5R6M	5.60 ± 30% @100 KHz	8.50 ± 20%	8.00
MOX-SMC-1245-7R8M	7.80 ± 30% @100 KHz	10.20 ± 20%	7.00
MOX-SMC-1245-100M	10.00 ± 30% @100 KHz	12.40 ± 20%	6.00



## ENGINEERING DATA

- Tolerance: K=± 10%      M=± 20%      N=± 30%
- Packaging: T= Tape & Reel B= Bulk (SMC-0703 = 2,000/reel, SMC-1005 = 1,500/reel, SMC-1245 = 1,000/reel)
- RoHS Compliant.
- Inductance is measured a 300 KHz and OSC level 0.5Vp~p.
- DC current at which the inductance drops 15% (typ) from its value without current. Temperature rise of 40°C maximum.
- MoxiE test instruments: WK3260B Impedance / Material Analyzer.
- MoxiE engineering specifications are subject to change without notice.