MOX-APIM-9090

HIGH CURRENT METAL ALLOY POWER INDUCTORS

MoxiE's APIM-9090 series of power inductors are designed to provide ultra high current and low DCR. The metal alloy construction is ideal for DC/DC converters, communication devices & industrial electronics.

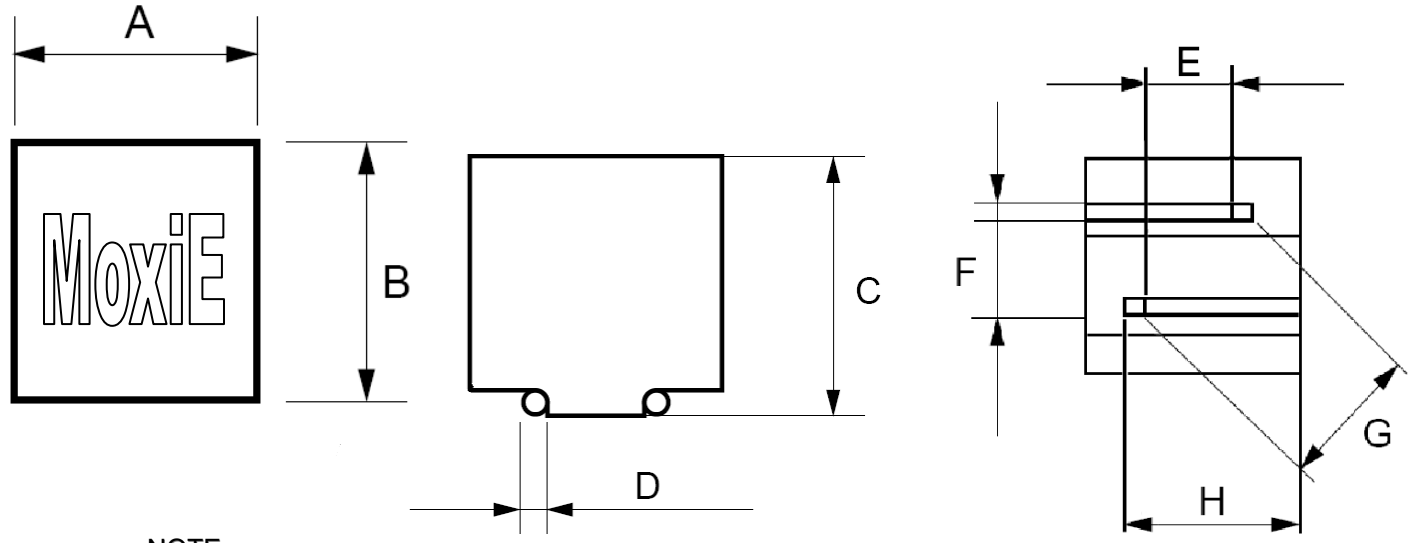
Features

- Low cost.
- Molded inductor with metal alloy powder construction.
- Small copper loss design.
- Large current and low DCR.
- Ultra low buzz noise.

AVAILABLE PACKAGE TYPES

MoxiE Part Number	A	B	C	D	E	F	G	H
MOX-APIM-9090	9.00 MAX.	9.00 MAX.	10.00 MAX	0.90 ±0.1	4.60±0.5	4.60±0.5	6.50±0.5	6.00±0.5

MECHANICAL DIMENSIONS



NOTE:
ALL DIMENSIONS IN MM

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MOX-APIM-9090

MoxiE® INDUCTOR CORPORATION

ELECTRICAL SPECIFICATIONS

MoxiE Part Number	Inductance (µH)	DCR mΩ Max. (Typ.)	DCR mΩ Max. (Max.)	Isat (A Max.)	Irms (A Max.)
MOX-APIM-9090-R80M	0.80	2.30	2.70	20.00	28.00
MOX-APIM-9090-1R0M	1.00	2.80	3.30	20.00	25.00
MOX-APIM-9090-1R2M	1.20	3.30	3.70	18.00	24.00
MOX-APIM-9090-1R5M	1.50	4.00	4.50	15.00	21.00
MOX-APIM-9090-2R0M	2.00	4.60	5.20	13.00	18.00
MOX-APIM-9090-3R0M	3.00	7.30	7.90	11.00	15.00

ENGINEERING NOTES

- Operating temperature: -55°C to 105°C.
- Temperature rise: approximately 40ºC at Irms.
- Inductance drop; approximately 30% max. at Isat
- MoxiE test equipment: HP4192A LF impedance analyzer or equivalent (test frequency: 1KHz/0.5V) RDC: CH502BC
- RoHS compliant
- Packaging: Bulk & tape/reel.
- MoxiE Inductor Corporation specifications are subject to change without notice.
- MoxiE Inductor Corporation custom designed products are subject to United States copyright and or patent protection(s).

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