

Mag Layers introduces the MHD series of Low-DCR, Low Profile, Ultra High Current, Power Inductors.

New Series offers a small package with big results.

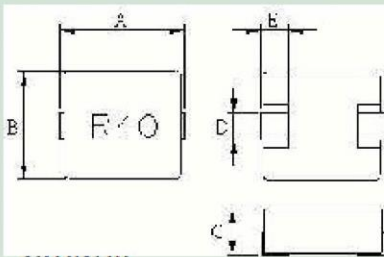
July 2011, Irvine CA- Mag Layers USA, Inc. is proud to announce their Low Profile Ultra High Current plus Low DCR Power Inductors, MHD-04BZ. This new product offers the same high current capability in a small lower profile package and allows for a better DCR performance. This series of High current power inductors have a height of less than 2.0 mm. This product compliments Mag Layers existing wide range of product offerings for the growing demand of high current applications.

ELECTRICAL REQUIREMENTS

PART NUMBER	INDUCTANCE Lo(μ H) \pm 20% @0A	Rdc (m Ω)		HEAT RATING CURRENT(I _{dc}) DC AMPS ¹	SATURATION CURRENT(I _{sat}) DC AMPS ²
		TYP	MAX		
MHD-04BZCR40M-XA	0.4	7.55	8.30	14.0	13.0
MHD-04BZCR60M-XA	0.6	9.50	10.45	11.7	11.2
MHD-04BZC1R0M-XA	1.0	13.25	14.60	9.6	9.4
MHD-04BZC1R5M-XA	1.5	21.45	23.60	7.5	7.6
MHD-04BZC2R2M-XA	2.2	35.20	38.70	5.5	5.6

1. DC current (I_{sat}) that will cause Lo to drop approximately 20%

2. DC current (I_{dc}) that will cause an approximate Δ T of 40°C



PRODUCT NO.	A	B	C	D	E
MHD-04BZCSERIES-XA	4.46 \pm 0.25	4.06 \pm 0.25	2.0 Max	2.0 \pm 0.3	0.78 \pm 0.3

Dimensions in mm

Test Data

4*4*2mm	L0(uH)	L1(L1/L0) #1	IDC #2	RDC(mΩ)	RS(Ω) 1MHZ
SPEC	2.2±20%	@5.6A	@5.5A	38.7Max	
MMD	2.161	1.470(-31.9%)	ΔT↑72.7°C	57.7	0.198
MHD	2.270	1.749 (-22.9%)	ΔT↑36.7°C	35.2	0.315

The difference of RDC approximately 38.9% between MMD and MHD and MHD is better than MMD.

1. DC current (Isat) that will cause Lo to drop approximately 20%
2. DC current (Idc) that will cause an approximate ΔT of 40°C

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With this wide selection of products they can offer solutions for the increasing demands put on space and power saving requirements. The MHD series inductors are a perfect solution for PDA, notebook, desktop, and server applications. They continue to meet the needs of today's Low profile, high current power supplies, DC/DC converters for distributed power systems, and DC/DC converters as used in field programmable gate arrays.

The entire series is RoHS compliant, Halogen free, and packaged in a 100% lead free composite construction. The MMD series has a super low resistance and an ultra high current rating. Please visit their website for a complete listing of sizes and performance ratings.

<http://www.maglayersusa.com>

Samples are available and current production scheduled for Q3 2011.

Mag Layers is a world leading manufacturer of Inductors, Ferrite beads, and LTCC components. They produce over a billion components annually. Mag Layers' components are competitively priced and designed in at many of the Fortune 500's top tech firms. Mag Layers USA, Inc. services the North and South American markets.

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