

APPLICATION

- PDA, notebook, desktop, and server applications
- Low profile , high current power supplies
- Battery powered devices
- DC/DC converters in distributed power systems
- DC/DC converters for field programmable gate array

FEATURES

- RoHS Compliant.
- Super low resistance ,ultra high current rating
- High performance (I sat) realized by metal dust core
- Frequency Range :up to 1MHz

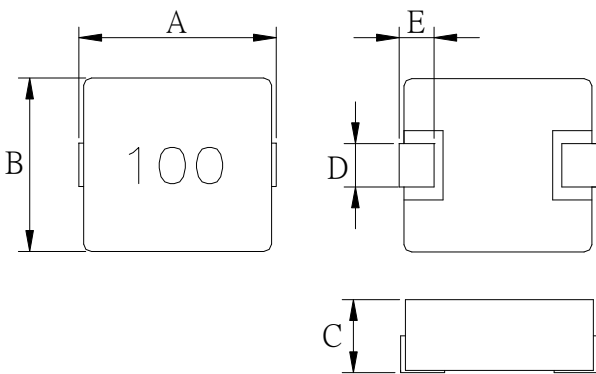
PRODUCT IDENTIFICATION

① ② ③ ④ ⑤

MMD - 10CZ - 100 M - X2

- ① Product Code
- ② Dimensions : 11.5 X 10.3 X 3.0 mm
- ③ Inductance : 100 = 10 μ H
- ④ Tolerance : M = $\pm 20\%$
- ⑤ Series Type : X2 Type

PRODUCT DIMENSION



NOTE : Dimensions in mm

PRODUCT NO.	A	B	C	D	E
MMD-10CZ-SERIES-X2	11.5 Max	10 \pm 0.3	3.0 Max	3.0 \pm 0.5	2.0 \pm 0.5

ELECTRICAL REQUIREMENTS

PART NUMBER	INDUCTANCE Lo(μ H) \pm 20% @0A	R _{dc} (m Ω)		HEAT RATING CURRENT(I _{dc}) DC AMPS ¹	SATURATION CURRENT(I _{sat}) DC AMPS ²
		Typ.	Max		
MMD-10CZ-R12M-X2	0.12	0.65	0.75	30	75
MMD-10CZ-R36M-X2	0.36	1.3	1.6	23	28
MMD-10CZ-R47M-X2	0.47	2.1	2.5	20	26
MMD-10CZ-R56M-X2	0.56	2.4	3.0	16	24
MMD-10CZ-1R0M-X2	1.0	5.3	6.0	13	18
MMD-10CZ-1R5M-X2	1.5	6.5	7.5	10	20
MMD-10CZ-2R2M-X2	2.2	8.0	9.0	13	16
MMD-10CZ-3R3M-X2	3.3	14.5	16	9.0	14
MMD-10CZ-4R7M-X2	4.7	20.5	22.5	7.0	13
MMD-10CZ-8R2M-X2	8.2	35	45	5.0	8.5
MMD-10CZ-100M-X2	10	50	55	5.0	7.5

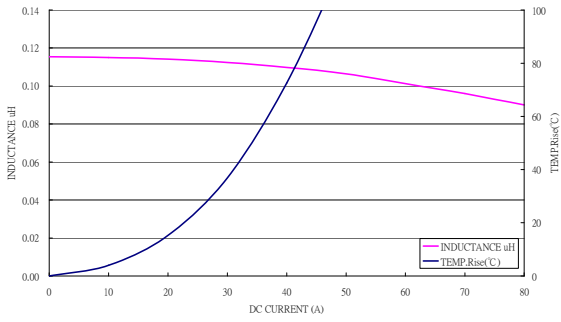
TEST FREQUENCY:100KHz,0.25V

TESTING INSTRUMENT L : Agilent4284A,WK4235,CH3302/G LCR METER
CH1320,CH1320S BIAS CURRENT SOURCE
R_{dc} :CH11025,GOM802 MICRO OHMMETER

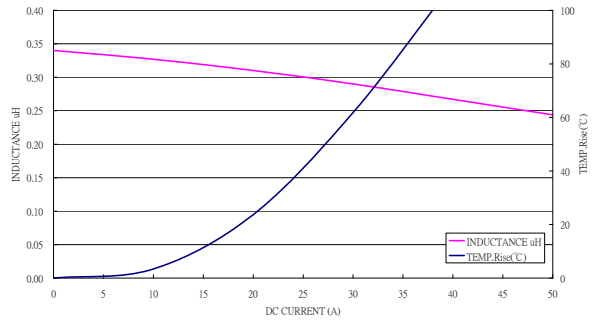
NOTES:

- 1.DC current (I_{dc}) that will cause an approximate Δ T of 40°C
- 2.DC current (I_{sat}) that will cause Lo to drop approximately 30%
- 3.All test data is referenced to 25°C ambient
- 4.Operating Temperature Range -55°C to +150°C
- 5.The part temperature (ambient + temp rise) should not exceed 150°C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

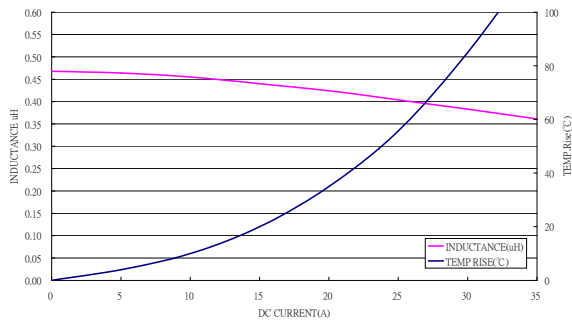
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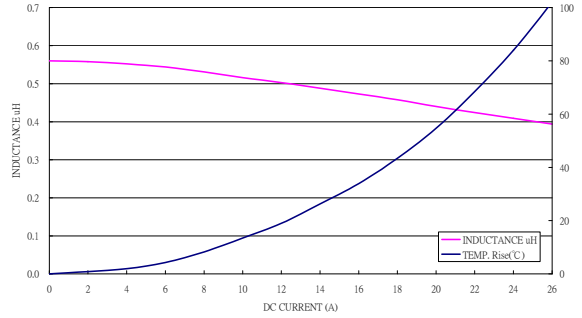
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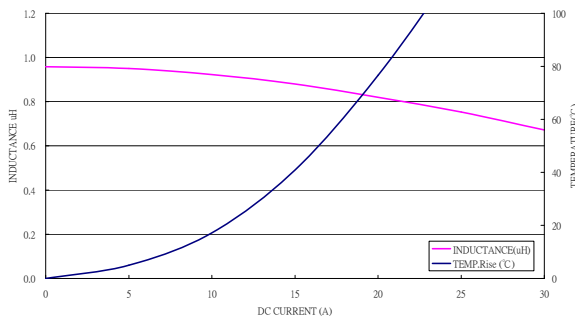
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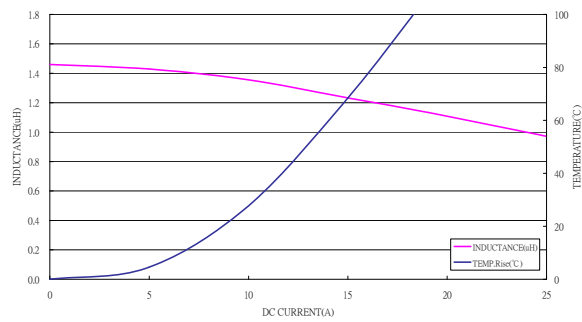
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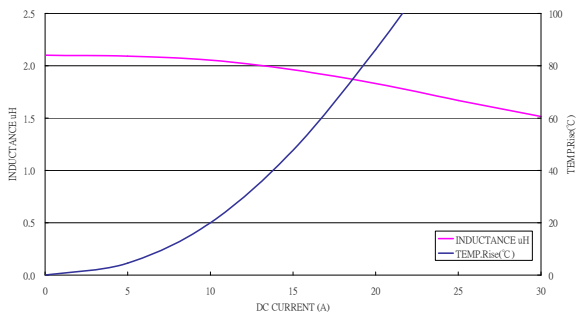
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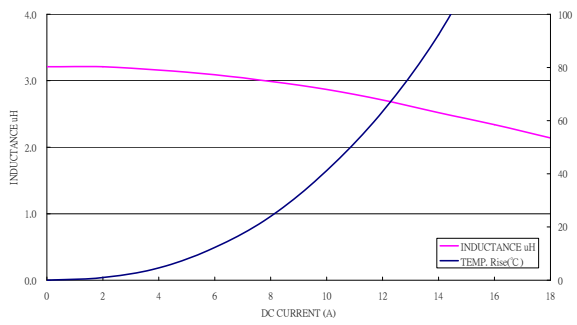
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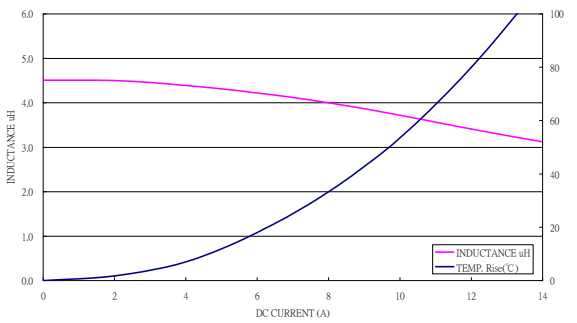
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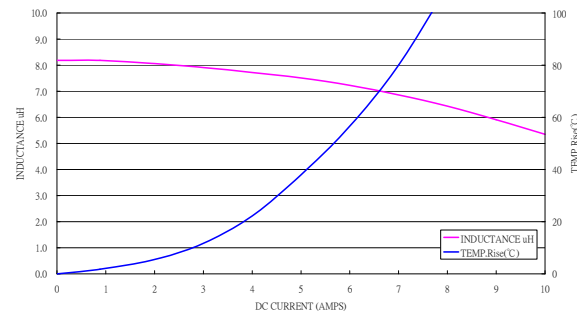
MMD-10CZ-3R3M-X2



MMD-10CZ-4R7M-X2



MMD-10CZ-8R2M-X2



MMD-10CZ-100M-X2

