

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 & Halogen Free
Super low resistance, ultra high current rating
High performance (I sat) realized by magnetic metal powder core

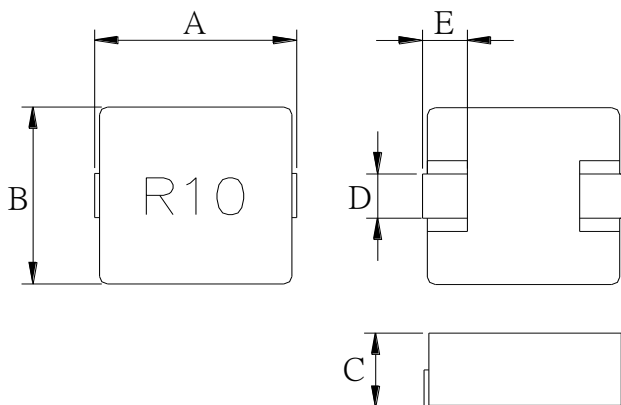
PRODUCT IDENTIFICATION

① ② ③ ④ ⑤

MMD - 05CZ - R10 M - V1

- ① Product Code
- ② Dimensions: 5.7 x 5.4 x 3.0 mm
- ③ Inductance: R10 = 0.10 μ H
- ④ Tolerance: M = $\pm 20\%$
- ⑤ Series Type: V1 Type

PRODUCT DIMENSION



NOTE: Dimensions in mm



PRODUCT NO.	A	B	C	D	E
MMD-05CZ-SERIES-V1	5.49 ± 0.25	5.18 ± 0.25	3.0 Max	2.0 ± 0.3	1.02 ± 0.3

ELECTRICAL REQUIREMENTS

PART NUMBER	INDUCTANCE Lo(μH)±20% @0A	R _{dc} (mΩ)		HEAT RATING CURRENT(I _{dc}) DC AMPS ¹	SATURATION CURRENT(I _{sat}) DC AMPS ²
		Typ.	Max		
MMD-05CZ-R10M-V1	0.10	3.0	3.16	23	27
MMD-05CZ-R22M-V1	0.22	4.3	4.52	15.5	21
MMD-05CZ-R33M-V1	0.33	5.3	5.56	13.7	19
MMD-05CZ-R47M-V1	0.47	6.7	7.04	12.2	16
MMD-05CZ-R68M-V1	0.68	8.53	8.96	10.2	13.5
MMD-05CZ-R82M-V1	0.82	11.3	11.9	9.3	13
MMD-05CZ-1R0M-V1	1.0	13.1	13.7	9.2	12
MMD-05CZ-1R5M-V1	1.5	19.7	20.7	7.2	11
MMD-05CZ-2R2M-V1	2.2	27.8	29.2	5.8	10
MMD-05CZ-3R3M-V1	3.3	52.1	54.7	5.0	8.5
MMD-05CZ-4R7M-V1	4.7	73.8	77.5	3.5	8.2
MMD-05CZ-5R6M-V1	5.6	103	108	3.0	4.1
MMD-05CZ-100M-V1	10	152	158	2.5	4.0
MMD-05CZ-150M-V1	15	252	265	1.9	2.5

Test frequency: 100 KHz, 0.25V

Testing instrument L: Agilent4284A, WK4235, CH3302/G LCR METER

CH1320, CH1320S BIAS CURRENT SOURCE

R_{dc}: CH11025, GOM802 MICRO OHMMETER

NOTES:

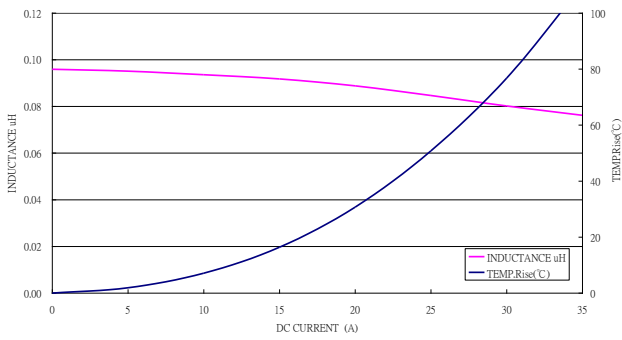
1. DC current (I_{dc}) that will cause an approximate Δ T of 40°C
2. DC current (I_{sat}) that will cause Lo to drop approximately 20%
3. All test data is referenced to 25°C ambient
4. Operating temperature range -40°C to +125°C
5. The part temperature (ambient + temp rise) should not exceed 125°C under the worst 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.



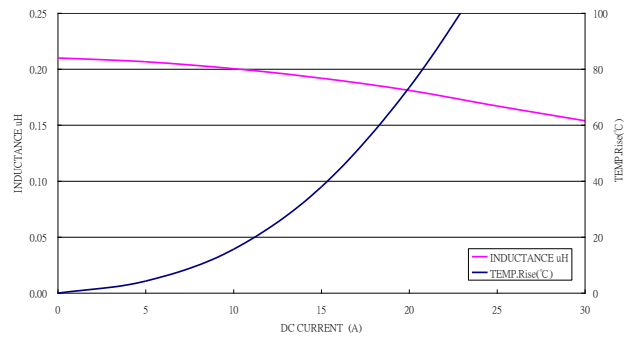
ELECTRICAL CHARACTERISTICS

Reference data

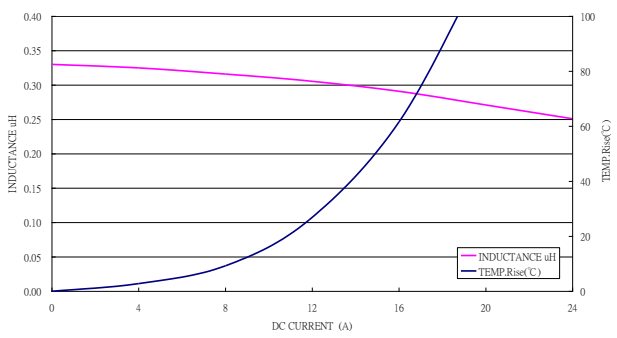
MMD-05CZ-R10M-V1



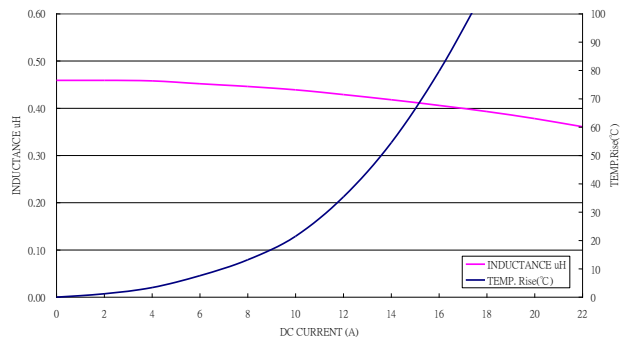
MMD-05CZ-R22M-V1



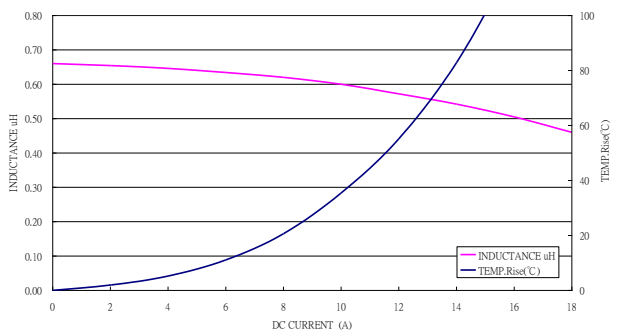
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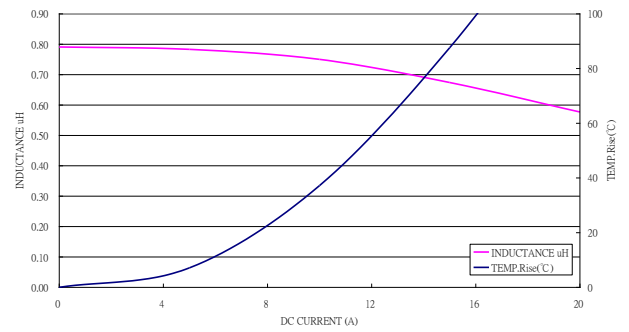
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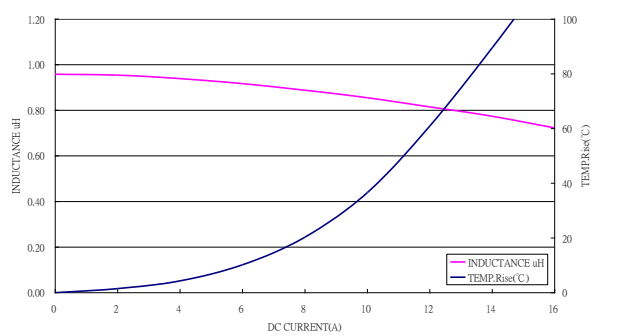
MMD-05CZ-R68M-V1



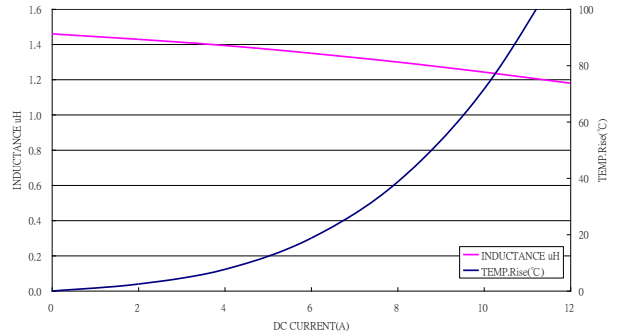
MMD-05CZ-R82M-V1



MMD-05CZ-1R0M-V1



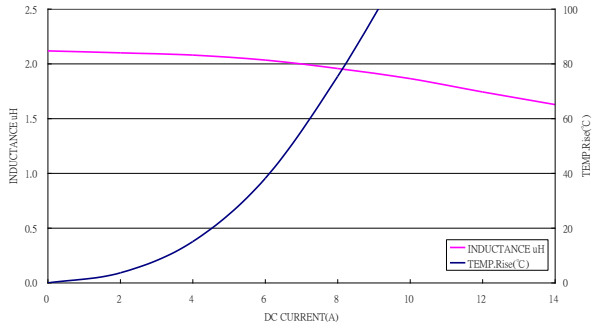
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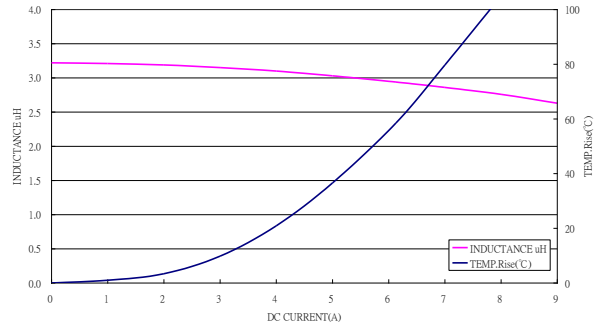
MAG.LAYERS

MMD-05CZ-SERIES-V1

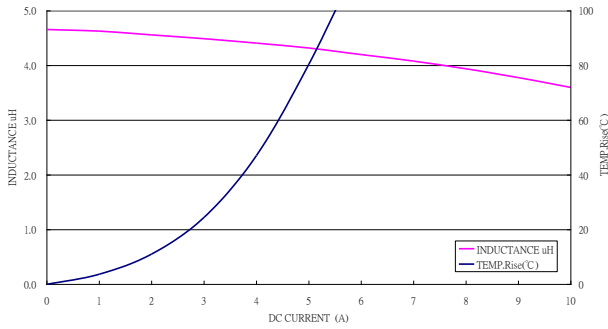
MMD-05CZ-2R2M-V1



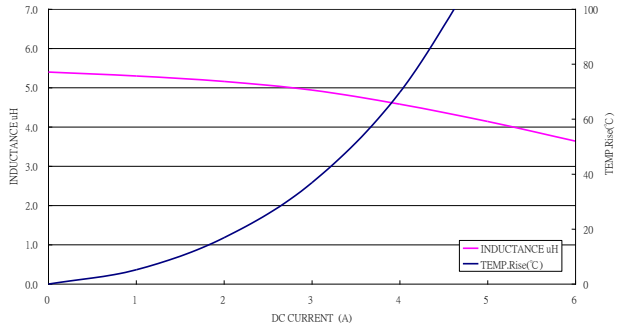
MMD-05CZ-3R3M-V1



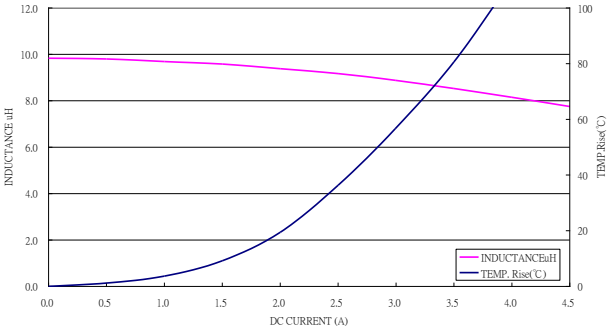
MMD-05CZ-4R7M-V1



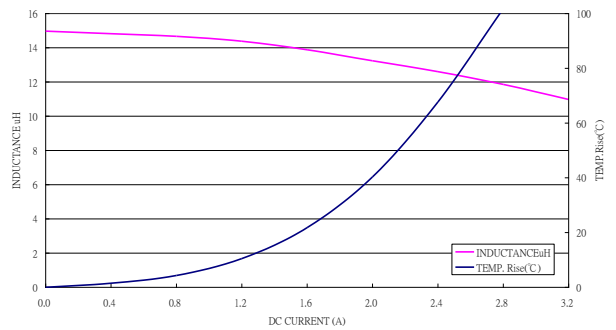
MMD-05CZ-5R6M-V1



MMD-05CZ-100M-V1

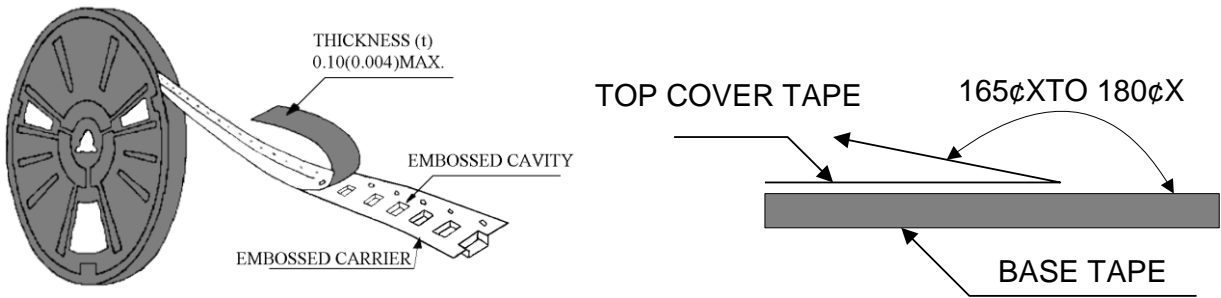


MMD-05CZ-150M-V1



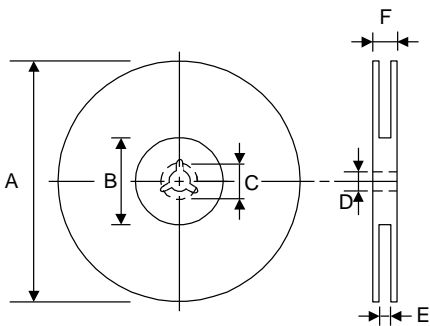
PACKAGING

● Peel-off Force

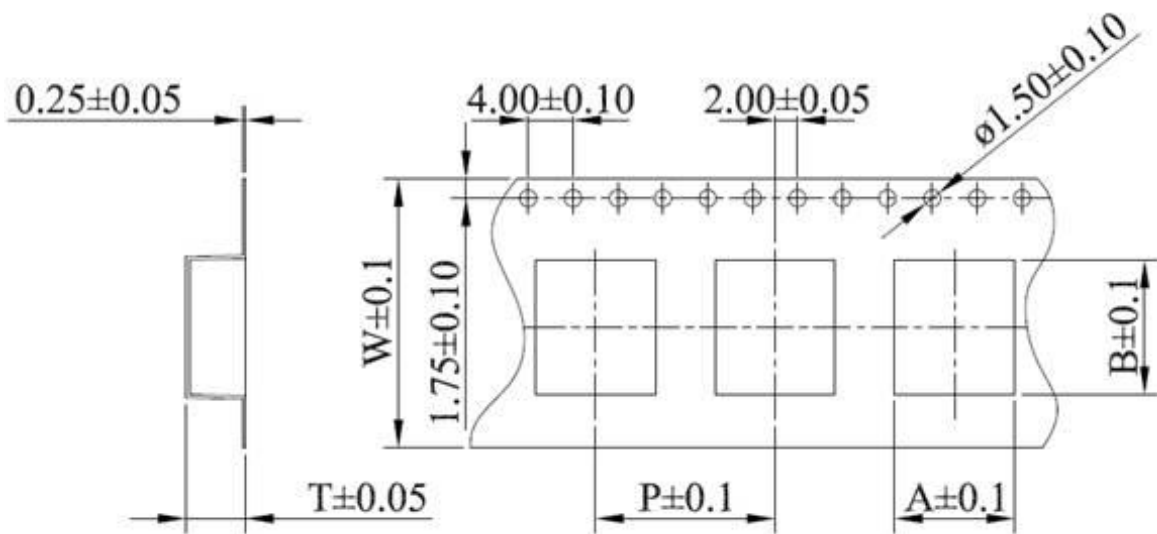


The force for peeling off cover tape is 10 to 70 grams in the arrow direction.

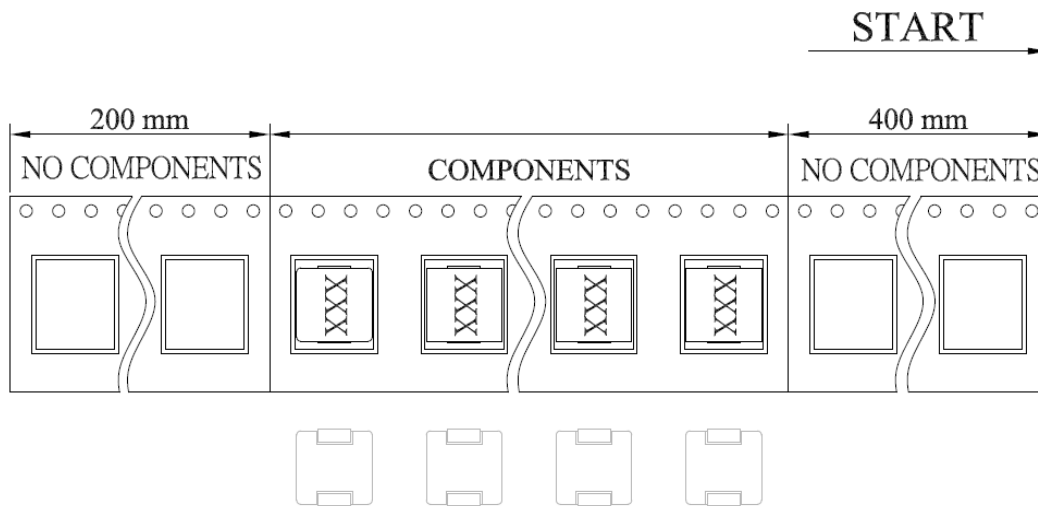
● Dimension (Unit: mm)



TYPE	A	B	C	D	E	F
330 mm	330±2	100±1	20±0.5	13 ±1.0	16 ±0.5	20 ±2



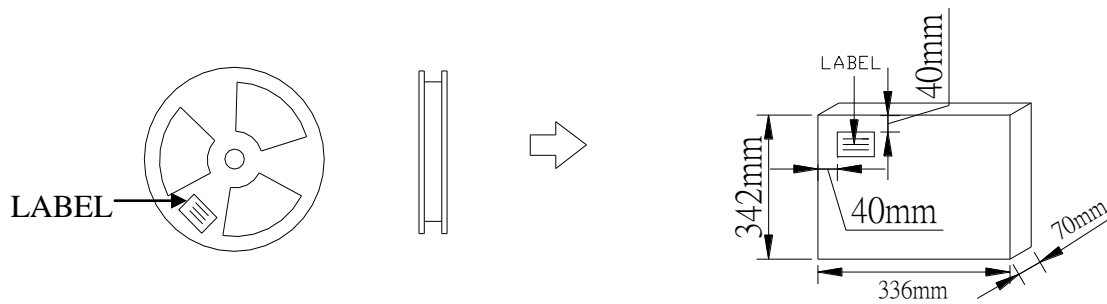
TYPE	SIZE	A	B	W	P	T
MMD	05CZ	5.4	5.9	12	8	3.3



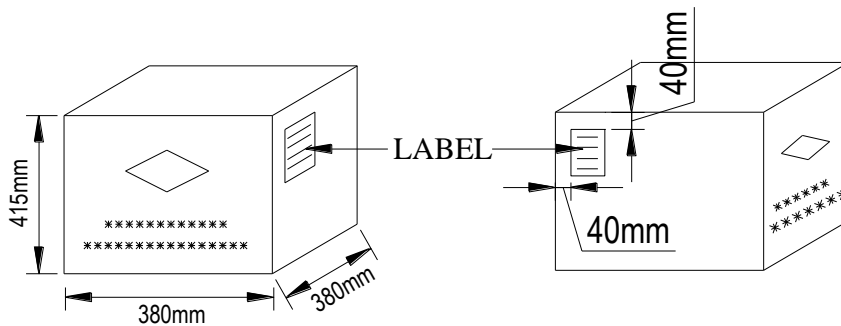
● Taping Quantity

SERIES	05CZ
PCS/Reel	1000

Middle packaging: 3 reels/box



External packaging: 5 boxes/carton



单击下面可查看定价，库存，交付和生命周期等信息

[>>MAG. LAYERS](#)