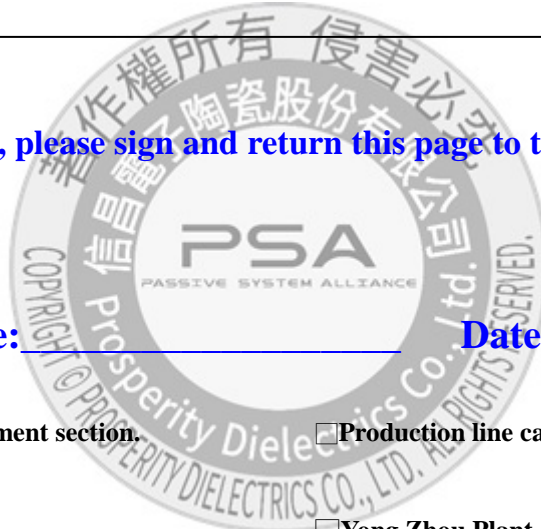




SPECIFICATION FOR APPROVAL

CUSTOMER	_____
CUST. PART NO.	_____
CUST. DOC. REV.	_____
DESCRIPTION	MOLDED POWER CHOKE (RoHS+H.F.)
SAMPLE LOT NO.	_____
PART NO.	MCS25GD-XXXMHC
DOC. REV.	ORIG
DATE	_____

Once you approve this part, please sign and return this page to the following marked location.



Customer Signature: _____ Date: _____

This part currently development section. Production line can produce this series of products.

Sales Office-Headquarter

No. 566-1, Kao-Shi Rd., Yangmei, Taoyuan 32668,
Taiwan
TEL: +886-3-475-3355
FAX: +886-3-485-4959

Yong Zhou Plant

Tao-Yuan Rd., Fenghuang Park, Lengshuitan
District, Yongzhou, Hunan 425000, P.R.C.
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FAX: +86-746-8610-181

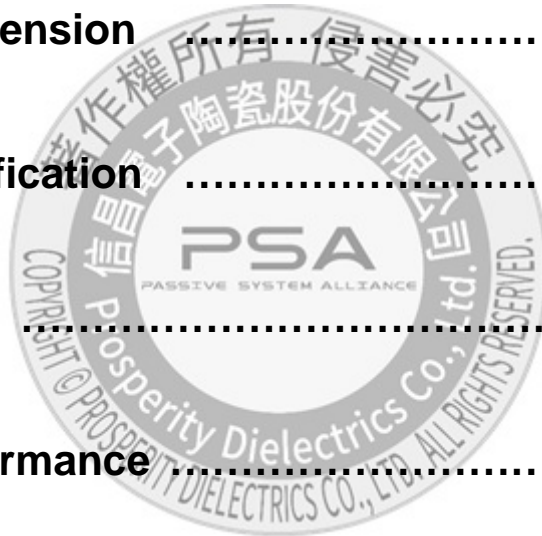
Sales Office-Dong Guan,China

No.638,Mei Jing West Road Xiniu Administrative
Zone Dalang Town,Dong Guan City,GuangDong
Province,China.
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FAX: +86-769-8555-0972

TESTED BY	CHECKED BY	APPROVED BY

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SPECIFICATION FOR APPROVAL

CUSTOMER	CUSTOMER P/N	REV. —	SPL. LOT NO.	
PART NAME MOLDED POWER CHOKE(RoHS+H.F.)	PART NO. MCS25GD-XXXMHC	REV. ORIG	DATE OF ISSUE	Q'TY 0 PCS

ENGINEERING CHANGE NOTICE - RECORD

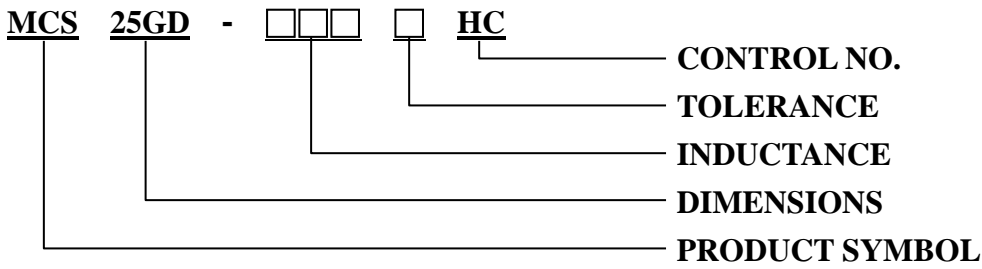
REVISION NO.	REVISION DESCRIPTION	AUTHOR	DATE	REMARK
ORIG		<i>Gary Chang</i>		



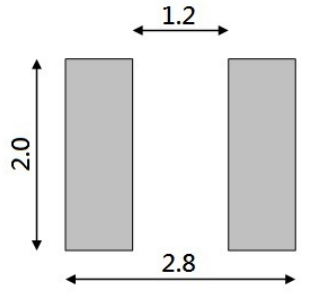
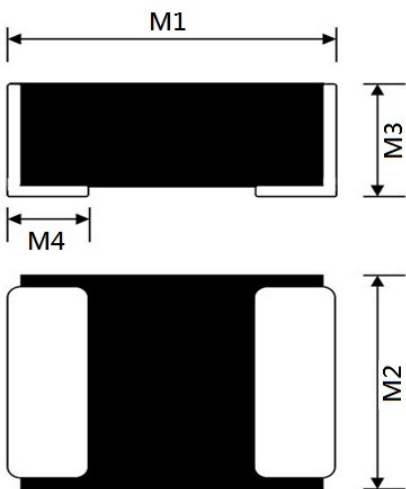
SPECIFICATION FOR APPROVAL

- ✘ This is a RoHS and REACH compliant product whose related documents are available on request.
- ✘ Graphic is only for dimensionally application.

1. PART NUMBERING IDENTIFICATION



2. MECHANICAL DIMENSION



UNIT: mm

	DIM.	TOL.
M1	2.5	±0.2
M2	2.0	±0.2
M3	1.2	MAX.
M4	0.6	±0.3

3. ELECTRICAL SPECIFICATION

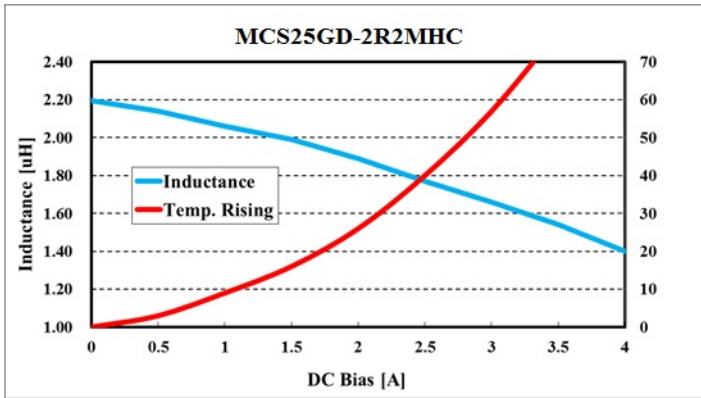
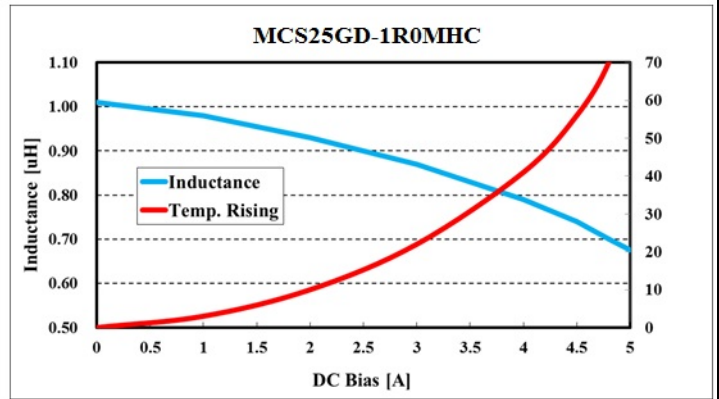
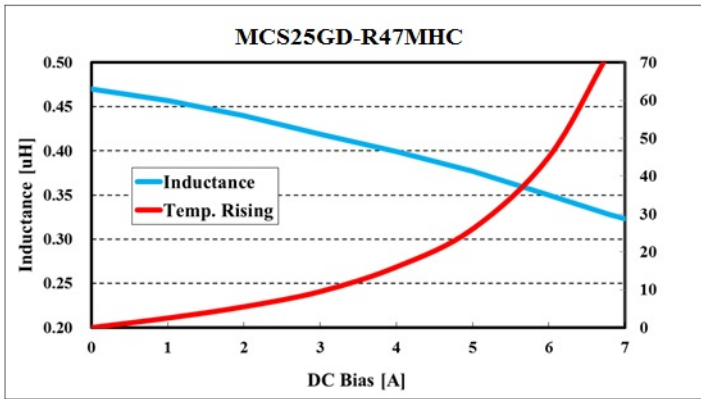
Part number	Inductance (uH) ±20%	DC Resistance	DC Resistance	Irms (A) Typical	Irms (A) MAX.	I sat (A) Typical	I sat (A) MAX.
		(mΩ) Typical	(mΩ) MAX.				
MCS25GD-R47MHC	0.47	16	22	5.8	4.9	6.8	6.2
MCS25GD-1R0MHC	1.0	36	44	3.9	3.3	4.8	4.3
MCS25GD-2R2MHC	2.2	74	89	2.5	2.2	3.5	3.2

Note:

1. Test Freq: 1MHz, 1V
2. All test referenced to 26°C ambient.
3. Operating Temperature range: -40°C to +125°C
4. Storage Temperature range: -50°C to +125°C
5. Taping Package Storage Condition:
 - 5-1. Storage Temperature: 5 to 40°C, Relative Humidity: < 65% RH
 - 5-2. Storage Time: 12 months max
6. Isat means that DC current will cause a 30% inductance reduction from initial value.
7. Irms means that DC current will cause coil temp. rising to 40°C whichever is smaller.

SPECIFICATION FOR APPROVAL

4. ELECTRICAL CURVE



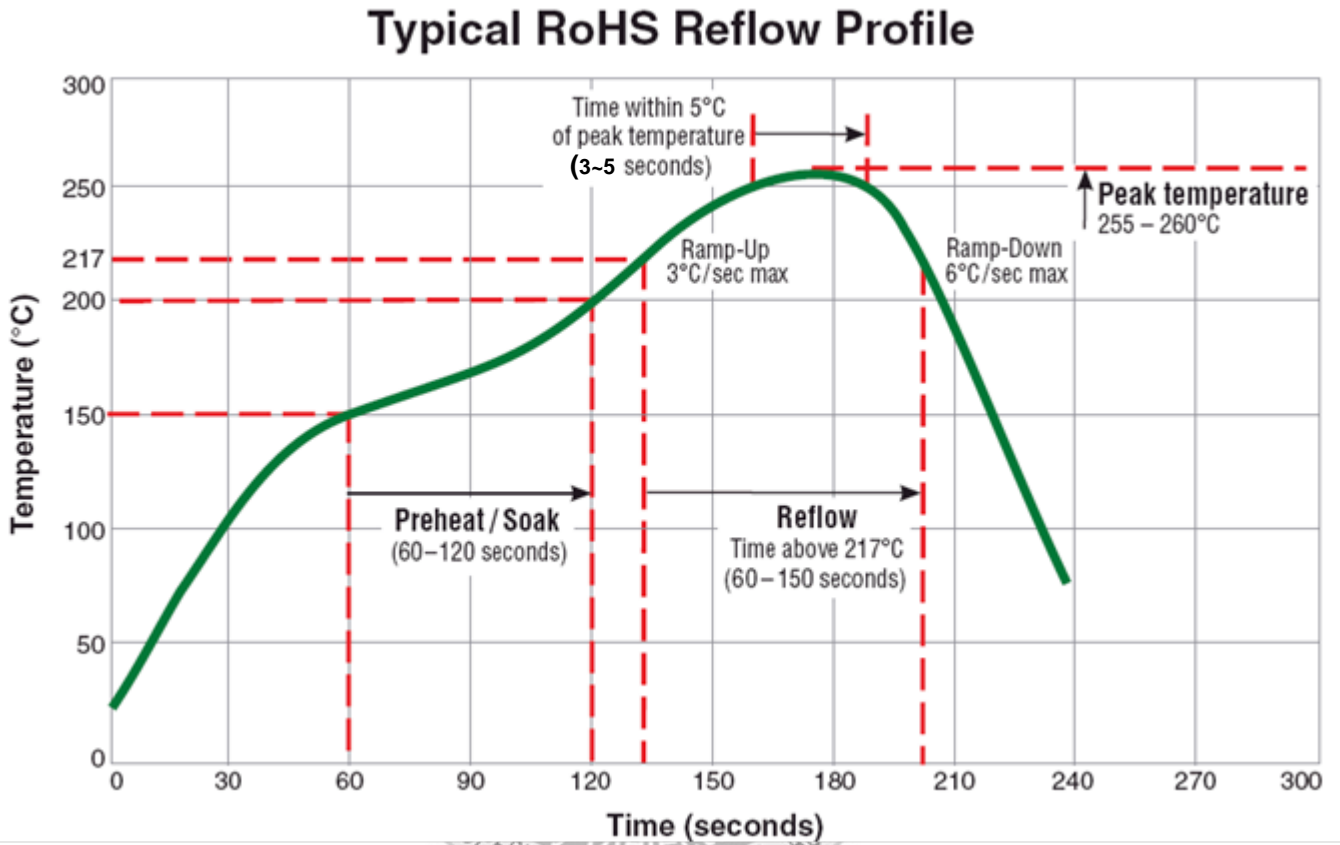
SPECIFICATION FOR APPROVAL

5. RELIABILITY PERFORMANCE

Test Item	Test Condition	Criteria
Resistance to Solder Heat	<ol style="list-style-type: none"> 1. Solder temperature: 260±5°C 2. Flux: Rosin 3. DIP time: 10±1 sec 	<ol style="list-style-type: none"> 1. More than 95% of terminal electrode should be covered with new solder 2. No mechanical damage 3. Inductance value should be within ±20% of the initial value
Adhesive Test	<ol style="list-style-type: none"> 1. Reflow temperature: 245°C It shall be Soldered on the substrate applying direction parallel to the substrate 2. Apply force(F): 5N 3. Test time: 10 sec 	<ol style="list-style-type: none"> 1. No mechanical damage 2. Soldering the products on PCB after the pulling test force > 5N
Temperature Cycle	<ol style="list-style-type: none"> 1. Temperature: -50 ~ 125°C For 30 minutes each 2. Cycle: 500 cycles 3. Measurement: At ambient temperature 24 hours after test completion 	<ol style="list-style-type: none"> 1. No mechanical damage 2. Inductance should be within ±20% of the initial value
Dry Heat Test	<ol style="list-style-type: none"> 1. Temperature: 85±2°C 2. Testing time: 500 hrs 3. Applied current: Full rated current 4. Measurement: At ambient temperature 24 hours after test completion 	<ol style="list-style-type: none"> 1. No mechanical damage 2. Inductance should be within ±20% of the initial value
Humidity Test	<ol style="list-style-type: none"> 1. Temperature: 60±2°C 2. Humidity: 90-95% RH 3. Applied current: Full rated current 4. Testing time: 500 hrs 5. Measurement: At ambient temperature 24 hours after test completion 	<ol style="list-style-type: none"> 1. No mechanical damage 2. Inductance should be within ±20% of the initial value

SPECIFICATION FOR APPROVAL

6. TYPICAL RoHS REFLOW PROFILE

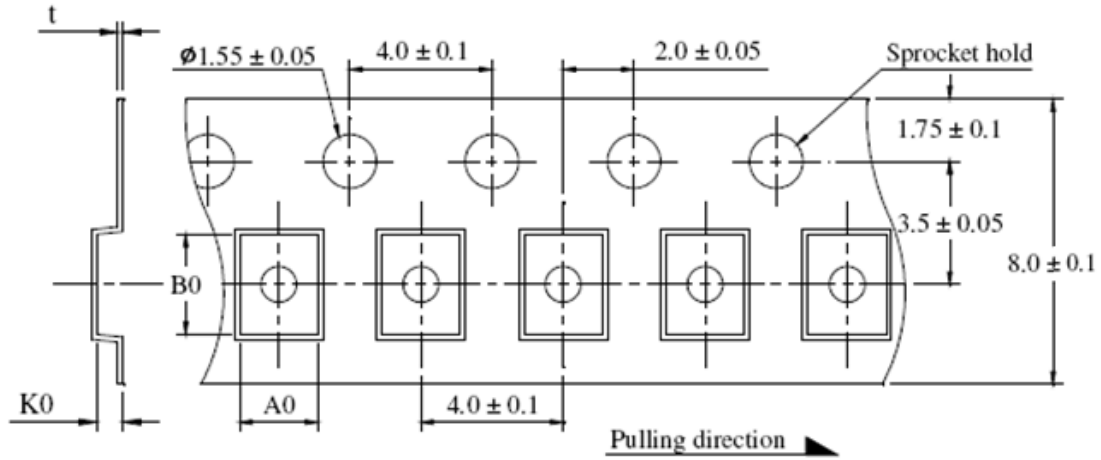


ERITY DIELECTRICS CO., LTD. H.K.

SPECIFICATION FOR APPROVAL

7. PACKING

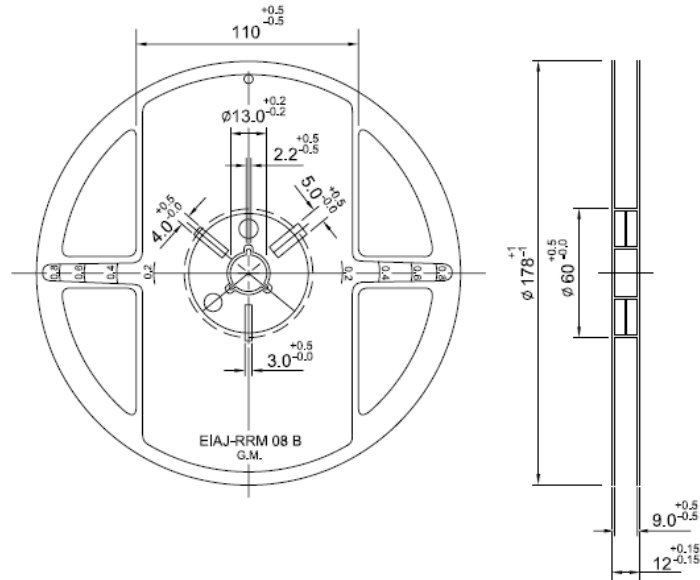
7.1 Carrier tape dimensions



UNIT : mm

	A0	B0	K0	t
DIM.	2.25 ± 0.05	2.80 ± 0.1	1.35 ± 0.1	0.22 ± 0.05

7.2 Taping reel dimensions



Qty.(pcs)	3,000
BOX	5 reels / inner box