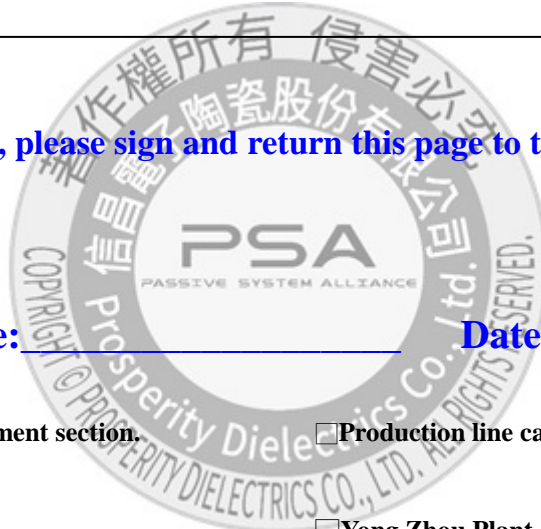


SPECIFICATION FOR APPROVAL

CUSTOMER	_____
CUST. PART NO.	_____
CUST. DOC. REV.	_____
DESCRIPTION	MOLDED POWER CHOKE (RoHS+H.F.)
SAMPLE LOT NO.	_____
PART NO.	MCS25GC-XXXMMP
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

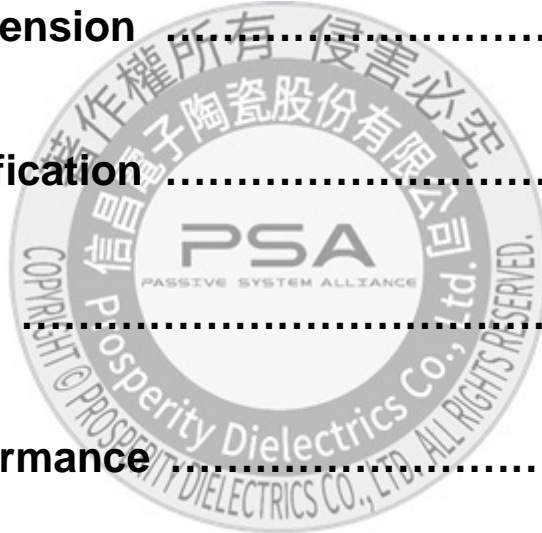
Yong Zhou Plant
Tao-Yuan Rd., Fenghuang Park, Lengshuitan
District, Yongzhou, Hunan 425000, P.R.C.
TEL: +86-746-8610-180
FAX: +86-746-8610-181

Sales Office-Dong Guan,China
No.638,Mei Jing West Road Xiniupo Administrative
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Province,China.
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TESTED BY	CHECKED BY	APPROVED BY

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■ Test Report	



SPECIFICATION FOR APPROVAL

CUSTOMER	CUSTOMER P/N	REV. —	SPL. LOT NO.	
PART NAME MOLDED POWER CHOKE(RoHS+H.F.)	PART NO. MCS25GC-XXXMMP	REV. ORIG	DATE OF ISSUE	Q'TY 0 PCS

ENGINEERING CHANGE NOTICE - RECORD

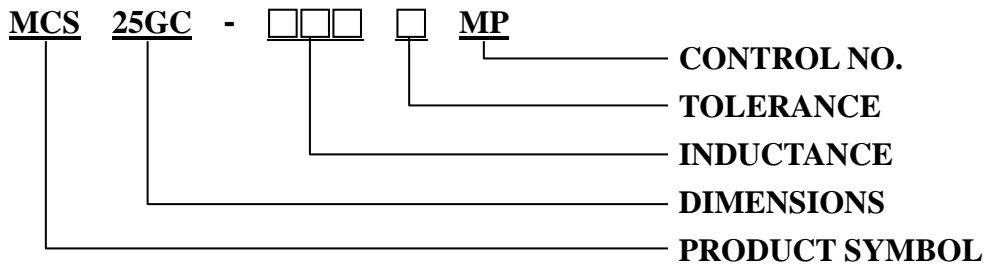
REVISION NO.	REVISION DESCRIPTION	AUTHOR	DATE	REMARK
ORIG		<i>Gary Chang</i>		



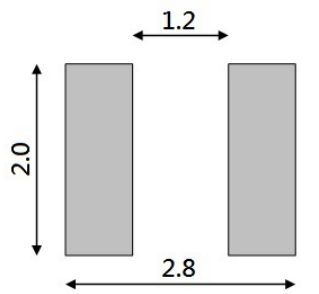
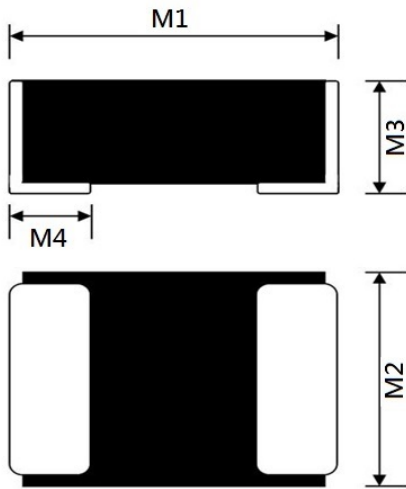
SPECIFICATION FOR APPROVAL

- ✘ 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	1.0	MAX.
M4	0.6	±0.3

3. ELECTRICAL SPECIFICATION

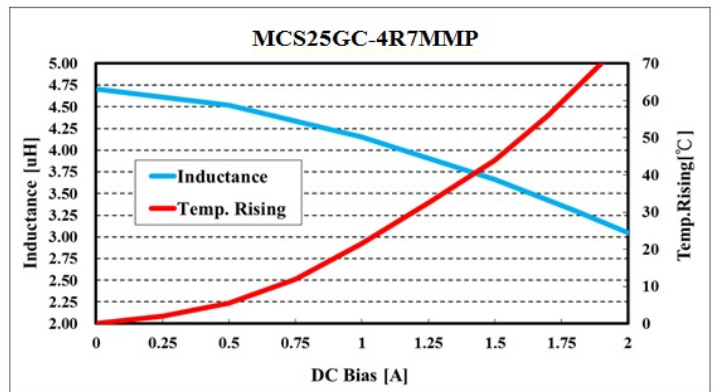
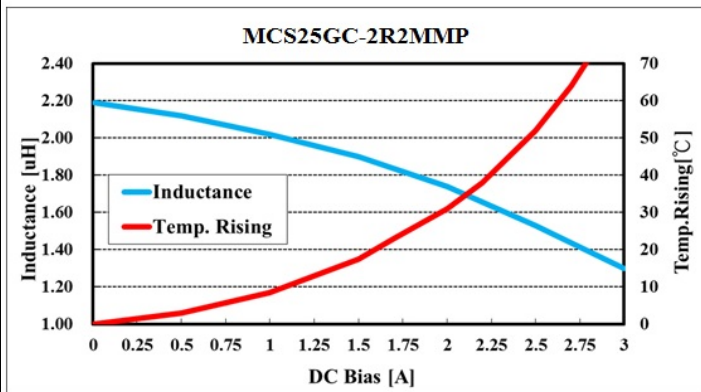
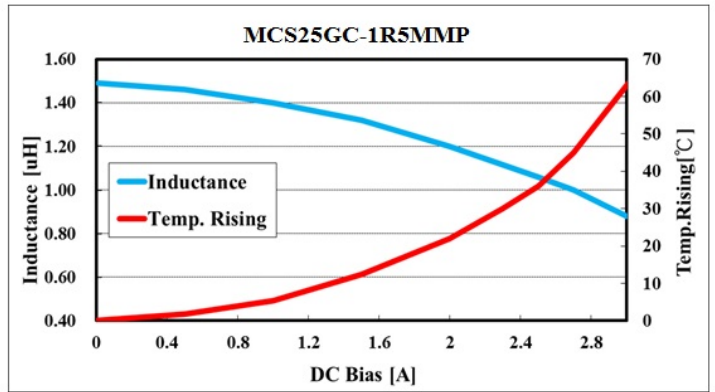
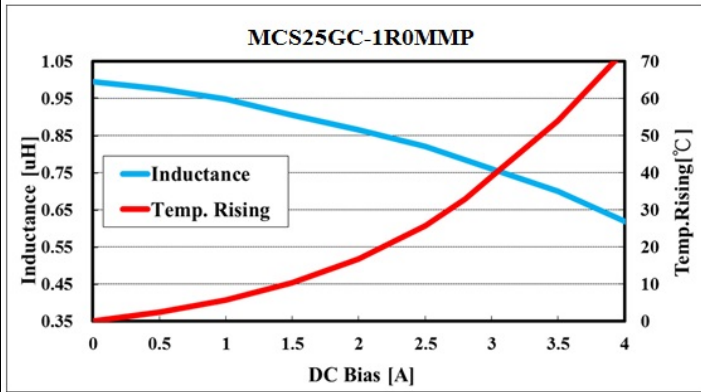
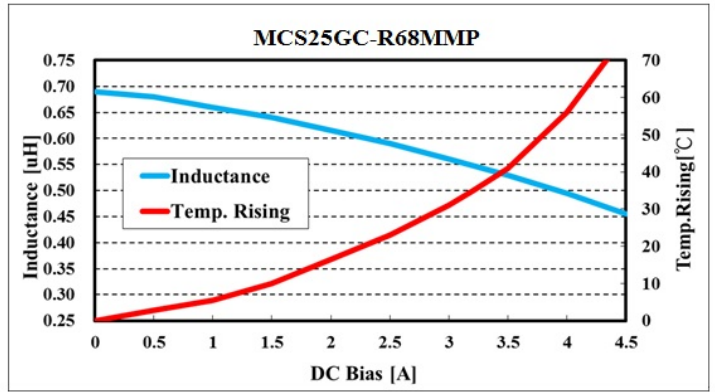
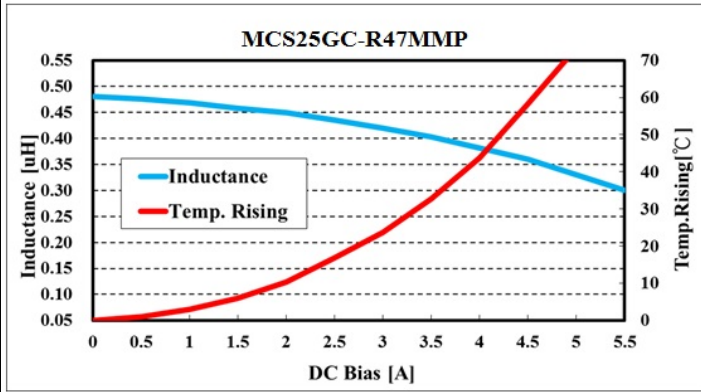
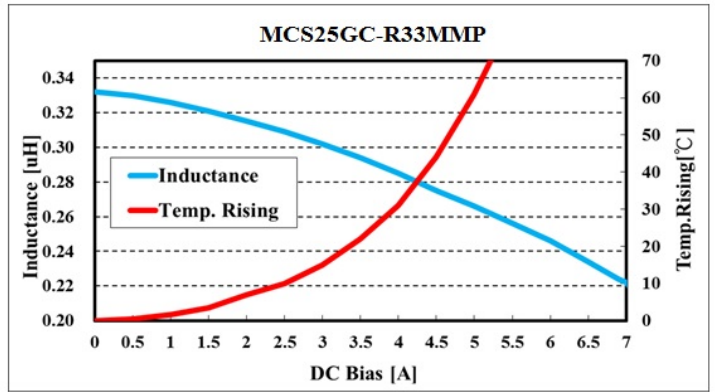
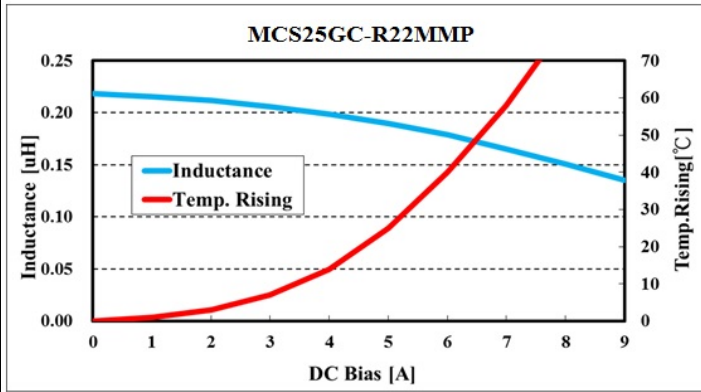
Part number	Inductance (uH)	DC Resistance (mΩ)	DC Resistance (mΩ)	Irms (A)	Irms (A)	I sat (A)	I sat (A)
	±20%	Typical	MAX.	Typical	MAX.	Typical	MAX.
MCS25GC-R22MMP	0.22	9	12.5	5.9	5.3	7.9	7.2
MCS25GC-R33MMP	0.33	21	26	4.4	4.0	6.6	6.0
MCS25GC-R47MMP	0.47	27	32	3.9	3.51	5.0	4.5
MCS25GC-R68MMP	0.68	37	44	3.4	3.06	4.3	3.87
MCS25GC-1R0MMP	1.0	45	54	3.0	2.70	3.5	3.15
MCS25GC-1R5MMP	1.5	76	91	2.5	2.25	2.6	2.34
MCS25GC-2R2MMP	2.2	99	119	2.3	2.07	2.4	2.16
MCS25GC-4R7MMP	4.7	220	262	1.36	1.22	1.8	1.62

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. Isat means that DC current will cause a 30% inductance reduction from initial value.
6. Irms means that DC current will cause coil temp. rising to 40°C whichever is smaller.

SPECIFICATION FOR APPROVAL

4. ELECTRICAL CURVE



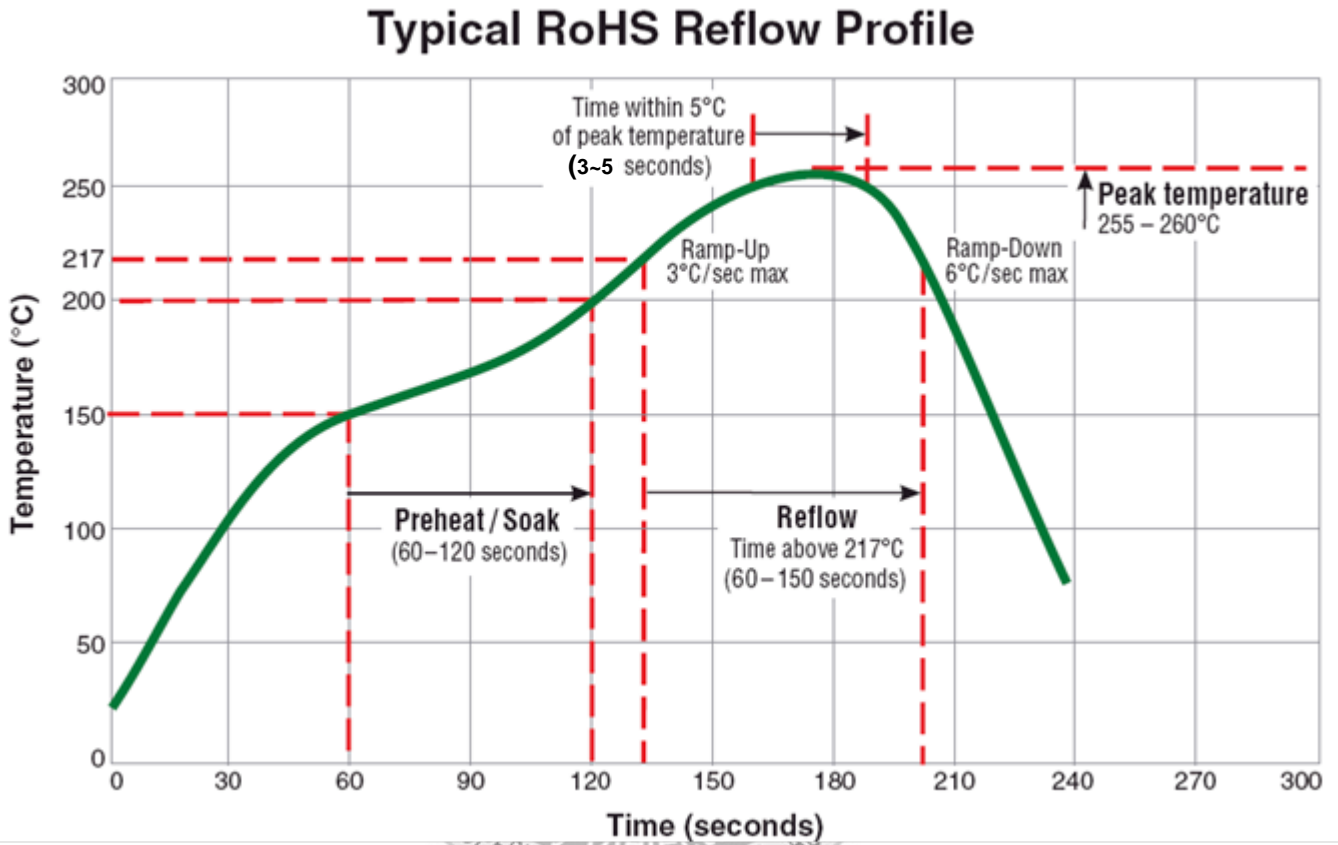
SPECIFICATION FOR APPROVAL

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

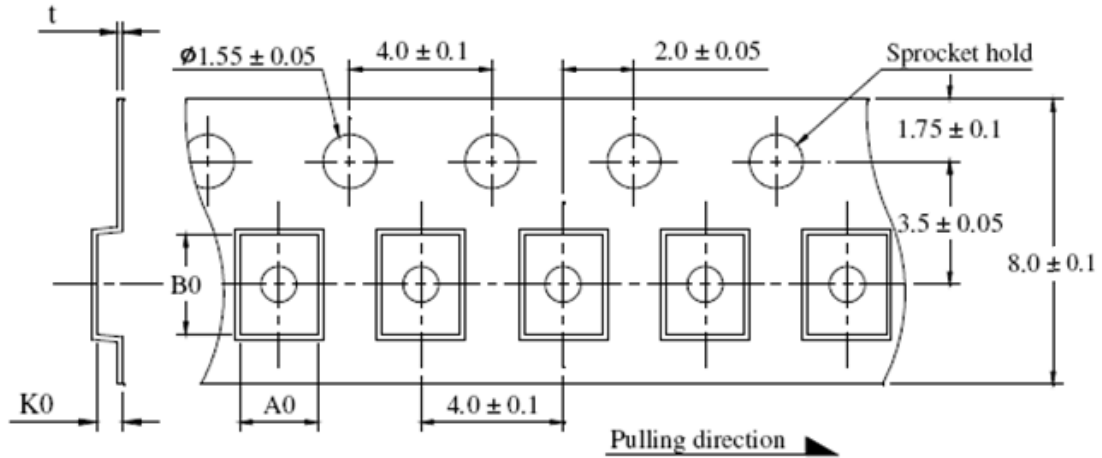
6. TYPICAL RoHS REFLOW PROFILE



SPECIFICATION FOR APPROVAL

7. PACKING

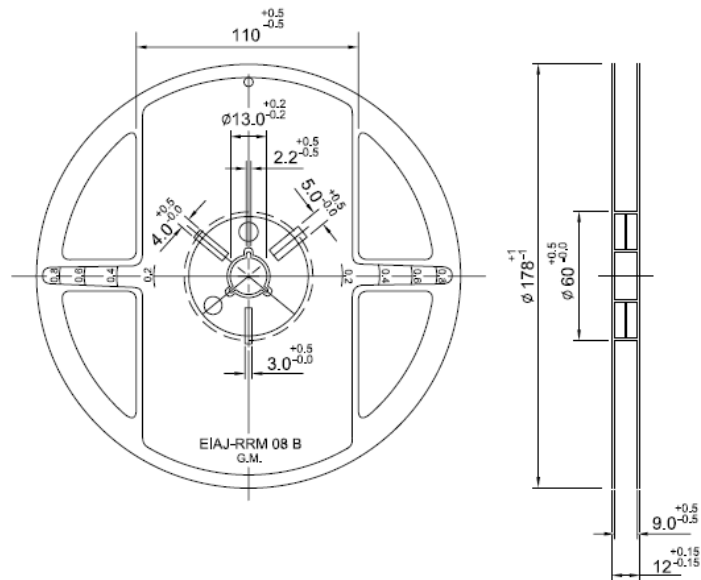
7.1 Carrier tape dimensions



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