- Hall	PILTS
CUSTOMER (	、临贫股长益力嘉丁。
CUST. PART NO.	200 20
CUST. DOC. REV.	
<b>DESCRIPTION</b>	MOLDED POWER CHOKE (RoHS+H.F.)
SAMPLE LOT NO.	S202309-0030
PART NO.	MCS25GC-XXXMCY-A
DOC. REV.	$\mathbf{A} = \mathbf{X}$
DATE	2023/10/12
Co Co	
1000	The Disk and Call

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

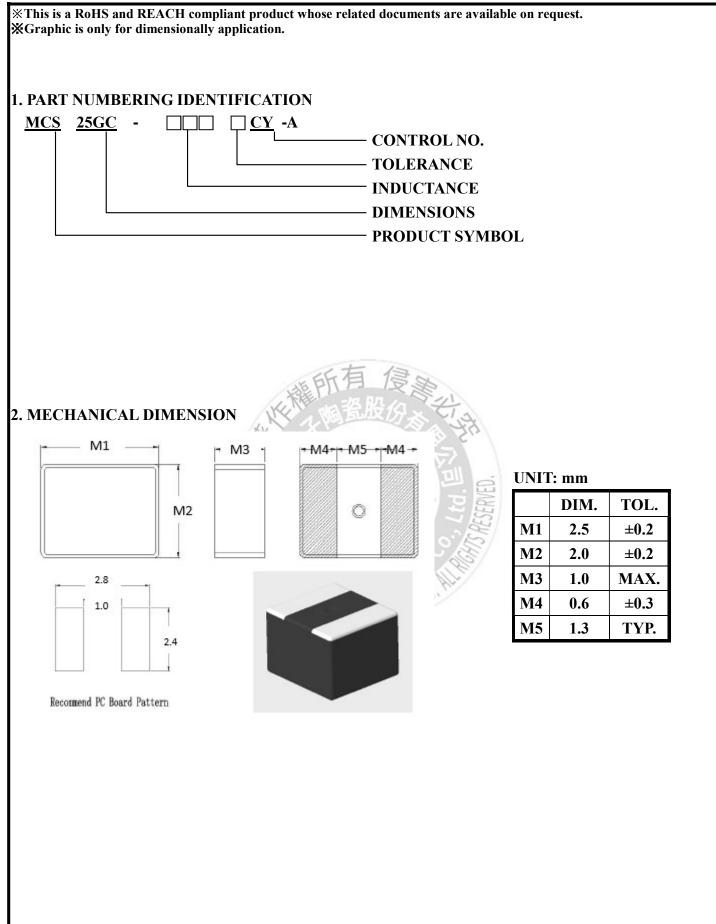
Customer Signature:	Date:
☐This part currently development section.	Production line can produce this series of products.
Sales Office-Headquarter No. 566-1, Kaoshi Rd., Yangmei, Taoyuan 32668, Taiwan (R.O.C.) TEL: +886-3-475-3355 FAX: +886-3-485-4959	Sales Office-Dong Guan,China No.638,Mei Jing West Road Xiniupo Administrative Zone Dalang Town,Dong Guan City,GuangDong Province,China. TEL: +86-769-8555-0979 FAX: +86-769-8555-0972

ISSUE BYCHECKED BYAPPROVED BYJenny TsengGillian NanK.C.Tseng

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CUSTOMER	CUSTOMER P/N	REV.	SPL. LOT NO.		
益力嘉		_		02309-0030	
				0.177-7	
PART NAME MOLDED POWER	PART NO.	REV.	DATE OF ISSUE	Q'TY	
CHOKE(RoHS+H.F.	) MCS25GC-XXXMCY-A	Α	2023/10/12	0	PCS
EN	GINEERING CHAN	GE NO	OTICE - REC	CORD	
REVISION NO.	<b>REVISION DESCRIPTIO</b>	N	AUTHOR	DATE	REMARK
A	OPPORTUGE SALES	した た た た た た た た た た た た た た	Gillian Nan	2023/10/12	



Part number	Inductance (uH) ±20%	DC Resistance (mΩ) Typical	DC Resistance (mΩ) MAX.	Irms (A) Typical	Irms (A) MAX.	I sat (A) Typical	I sat (A) MAX.
MCS25GC-R22MCY-A	0.22	22.0	25.0	5.50	4.80	6.50	5.50
MCS25GC-R33MCY-A	0.33	25.0	30.0	5.00	4.00	5.00	4.80
MCS25GC-R47MCY-A	0.47	28.0	35.0	4.00	3.60	4.80	4.60
MCS25GC-R68MCY-A	0.68	32.0	45.0	3.50	3.10	4.40	3.90
MCS25GC-1R0MCY-A	1.0	45.0	60.0	3.10	2.80	3.60	3.20
MCS25GC-1R5MCY-A	1.5	80.0	100.0	2.50	2.10	2.70	2.40
MCS25GC-2R2MCY-A	2.2	110.0	130.0	2.20	2.00	2.50	2.20
MCS25GC-3R3MCY-A	3.3	195.0	225.0	1.70	1.40	2.00	1.80
MCS25GC-4R7MCY-A	4.7	220.0	265.0	1.40	1.25	1.90	1.60

NOTE:

1. Test Freq.: 1MHz, 1V

2. All test referenced to  $25^{\circ}C \pm 3^{\circ}C$  ambient.

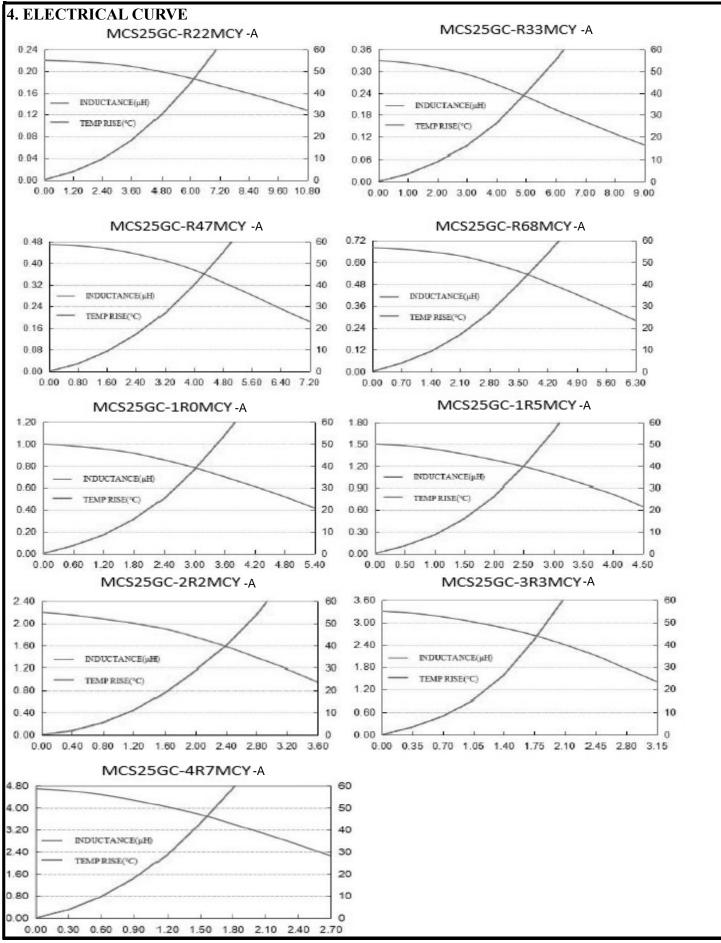
3. Operating Temperature range: -40°C to +125°C (Including coil self-temperature rise)

4. Storage Temperature range: -20  $^\circ\!\mathrm{C}$  to +60  $^\circ\!\mathrm{C}$  and less than 60% RH

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.

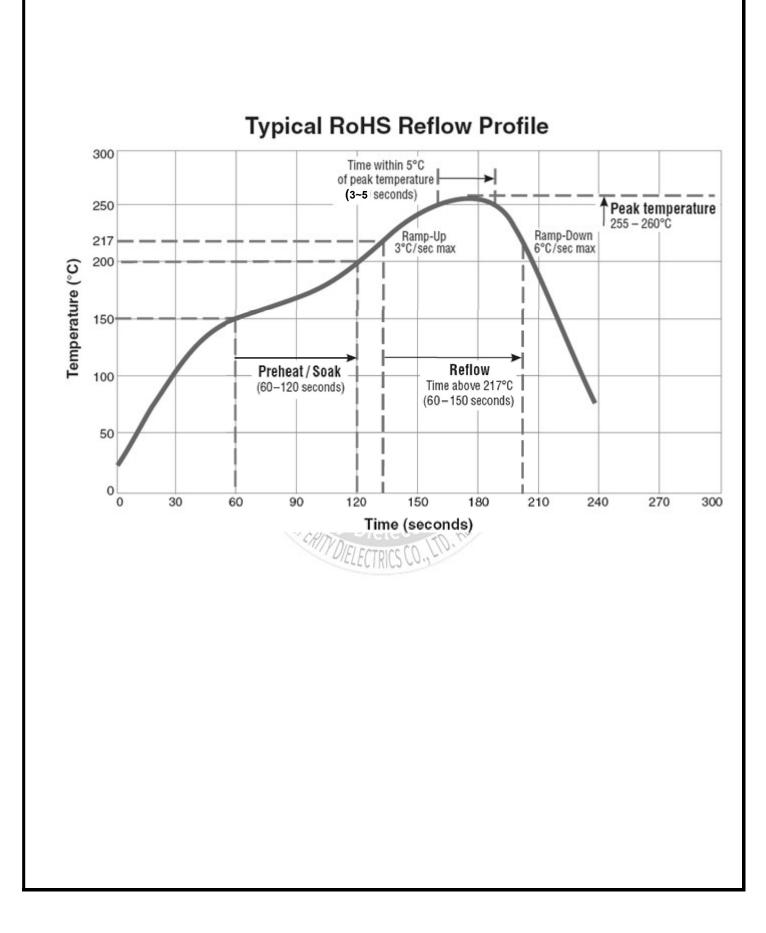




### 5. RELIABILITY PERFORMANCE

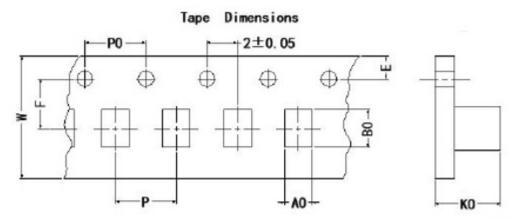
Test Item	Test Condition					
External Appearance	No external defects can be found in the visual inspection					
Electrode Strength	No electrode detachment should be found when the device is pushed in two directions of X and Y with the force of 5.0N for 10±2 seconds after soldering between copper plate and the electrodes.					
Heat Endurance Test	Temperature: 125°C±2°C Test time: 1000 h (+48 h, -0 h) Post-treatment: left at a room condition for 24 h±2 h					
Dielectric Strength	The insulation resistance should be over $100M\Omega$ when D.C.100V is applied to the coil-core, meanwhile no structure and electric defects should be found in 1 minute.					
Temperature Feature	Inductance coefficient is $(0 \sim 2000) \times 10^{-6}$ (-40°C ~ +100°C)					
Humidity Test	Inductance deviation is within $\pm 5\%$ and no structure and electric defects can be found after 96 $\pm 4$ hours test under the condition of relative humidity of 90~95% and temperature of $40\pm 2$ °C, and 1 hour storage under room ambient conditions after the device is wiped with dry cloth.					
Vibration Test	Inductance deviation is within $\pm 3\%$ after 1 hour sweeping vibration in each three directions, namely, forward and backward, up an and down, right and left. The frequency is $10\sim55\sim10$ Hz and the amplitude of 1 minute cycle is 1.5mm PP.					
Shock Test	Inductance deviation is within $\pm 3\%$ after the test with shock testing machine, once in each of the three perpendicular axis directions. The shock acceleration is $981$ m/s2.					

#### 6. REFLOW CHART



### 7. PACKING

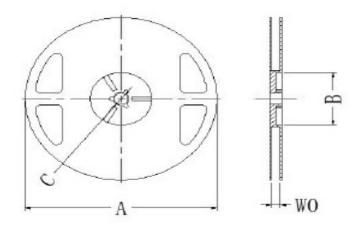
#### 7-1 CARRIER TAPE DIMENSIONS



UNIT : mm

ITEM	W	Р	Ε	F	PO	A0	<b>B0</b>	K0
DIM	8.0±0.1	<b>4.0±0.1</b>	1.75±0.05	3.5±0.1	4.0±0.1	2.5±0.1	2.95±0.1	1.35±0.1

7-2 TAPING REEL DIMENSIONS



ITEM	Α	В	С	W0
DIM	178±2.0	60±2.0	12±0.5	10±1.5

7-3 PACKING QUANTITY: 3000\PCS/REEL