

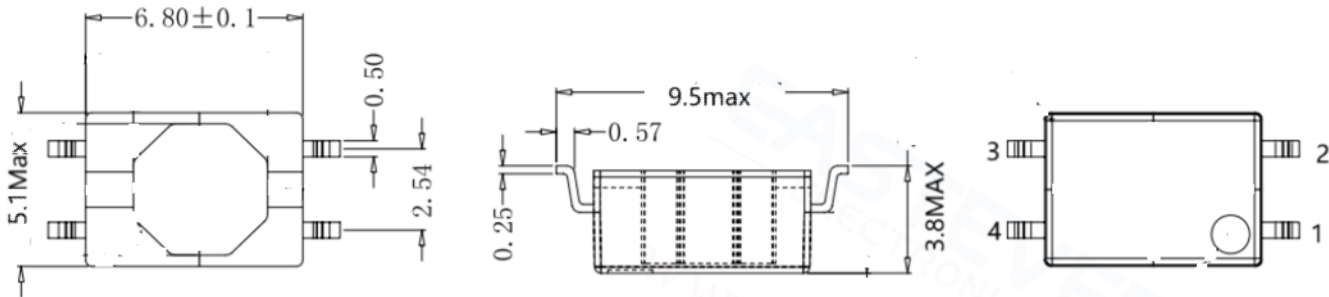
Common Mode Choke

TCHB0704-Z701Y

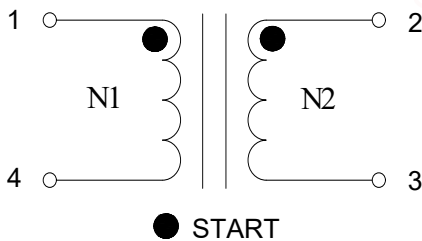
2025-7-25 Rev. 0



A. MECHANICAL(unit:mm)



B. SCHEMATICS



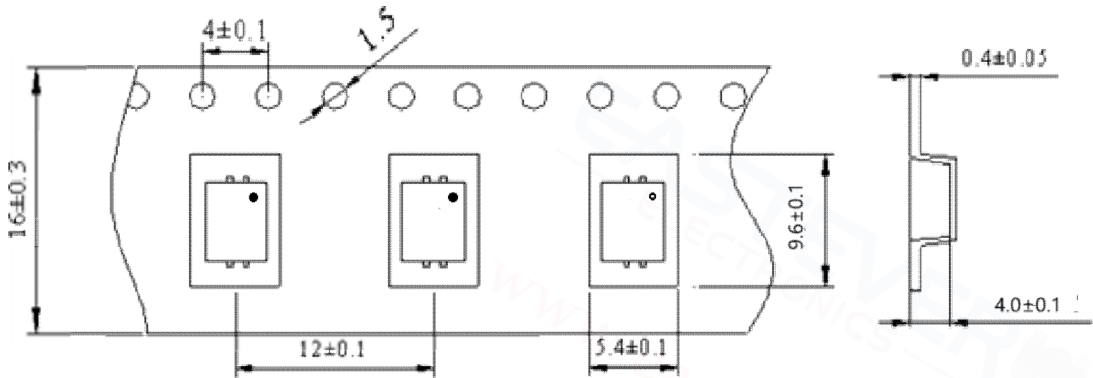
C. ELECTRIC CHARACTERISTICS

NO.	ITEMS	TEMINAL	SPECIFICATION	TEST CONDITION
1	IMPEDANCE	N1=N2	700Ω Min	@10MHz/0.1V
2	DCR	N1=N2	100mΩ Max	@25℃
3	TURNS RATIO	(1-4):(2-3)=1:1		
4	RATED CURRENT	1.0A REF		
5	HI-POT	N1=N2	@AC0.1KV/3mA/2S	

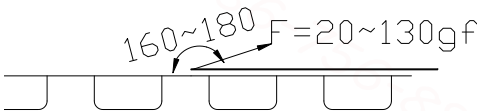
- Electrical Specifications @ 25℃
- In the production of products, all electrical properties and electrical strength must be tested
- RoHS compliant
- Operating Temperature Range: -25℃ to +85℃

D. PACKINGSPECIFICATIONS

D1.Tape Direction (mm)

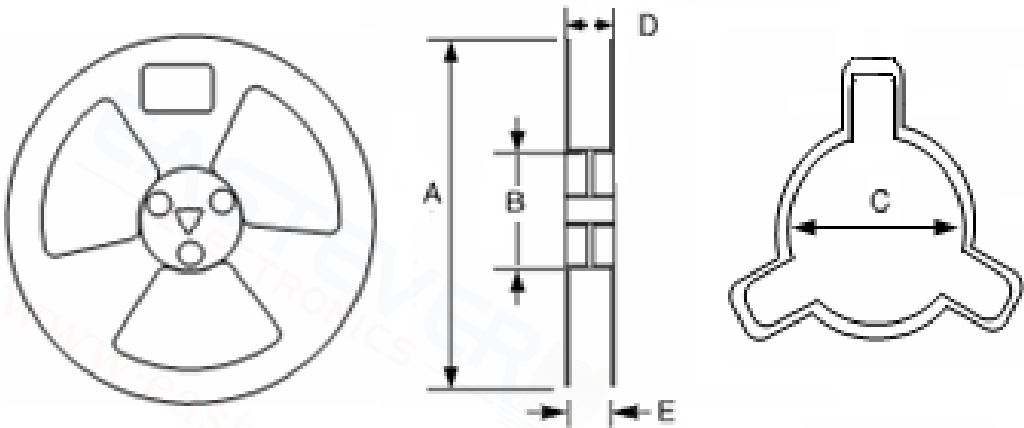


D2. Cover Tape Peel Off Condition



NOTE: Cold seal the cover belt, and then wrap it with a protective tape.

D3. Reel Dimensions (mm)



A	B	C	E	D
Φ330	Φ100	Φ13.5	16.5	22.5

NOTE: The carrier plate needs to be glued and fixed with hot melt glue.

D4. Carton Dimensions and Packing Quantity

■ Inner Carton : 335x40x335mm

■ Out Carton : 350x300x350mm

Product Series	Quantity / Reel	Inner Carton Quantity	Out Carton Quantity
TCHB0704	1000pcs	(1000x3) = 3000pcs	(1000x15) = 15000pcs

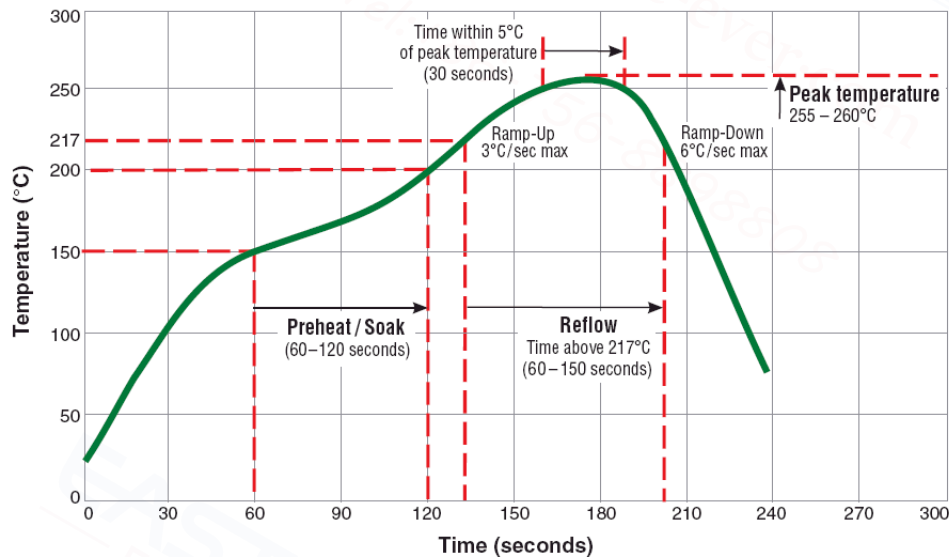
E. SOLDERING CONDITIONS

Applicable soldering process to the products is reflow.

1.Soldering Materials

- (1)Solder:Sn-3.0Ag-0.5Cu (Equivalent)
- (2)Flux:Use rosin-based flux,but not strongly acidic flux (with xhlorine exceeding 0.2wt %).Do not use water-soluble flux.

2.Reflow Soldering Profile



Reworking with electric soldering iron must preheating at 150°C for 1 minute is required, and do not directly touch the core with the tip of the soldering iron. The reworking soldering conditions are as follows.

- ① Temperature of soldering iron tip: 350°C;
- ② Soldering iron power output: ≤30W;
- ③ Diameter of soldering iron end: ≤1.0mm;
- ④ Soldering time: <3 s



TEST DATA

Type: Common Mode Choke
Customer Name: 东莞市鸿技电子有限公司
Customer No: M-521CT
Eastever No: TCHB0704-Z701Y

Date: 2025/7/25
Total: 15PCS
Test Qty: 10PCS
Temperature: 25°C
Humidity: 70%RH

Electric Character & Dimension (Unit:mm)

Item	Impedance	Rated Current	DCR	DCR			A	B	C	D	E	F	G	H
Terminal	/	/	1-2	3-4			A	B	C	D	E	F	G	H
unit	Ω	°C	mΩ	mΩ										
Spec	700 Min	1.0A	100 Max	100 Max			6.80±0.1	5.1 Max	3.8 Max	0.57	2.54			
Range	/	/	/	/			6.70~6.90	/	/	/	/			
Test condition	10MHz	Δ T(40°C)	@25°C											
1	1320.00	6.00	66.26	66.56			6.86	4.77	3.53	0.55	2.51			
2	1320.00	9.00	67.23	67.27			6.84	4.81	3.41	0.52	2.52			
3	1250.00	7.20	67.06	67.95			6.84	4.83	3.45	0.52	2.51			
4	1230.00	8.60	67.62	67.69			6.85	4.88	3.43	0.52	2.53			
5	1350.00	9.10	67.58	68.26			6.85	4.82	3.43	0.52	2.52			
6	1263.00	6.50	68.62	68.89			6.84	4.83	3.45	0.53	2.51			
7	1260.00	6.30	67.36	67.77			6.84	4.85	3.46	0.53	2.54			
8	1340.00	7.40	67.65	67.89			6.83	4.86	3.45	0.55	2.53			
9	1335.00	6.50	67.42	67.69			6.85	4.87	3.45	0.56	2.52			
10	1321.00	9.00	67.09	67.45			6.86	4.82	3.47	0.55	2.51			
AVE	1298.90	7.56	67.39	67.74			6.85	4.83	3.45	0.54	2.52			
δ	43.36	1.25	0.59	0.61			0.01	0.03	0.03	0.02	0.01			
OK/NG														

Test Instruments

- | | | |
|--------------------|-----------------|-----------------|
| 1. [] TH2829CX | 5. [] LCZ 1062 | 9. [] DU-333 |
| 2. [] TH2811D | 6. [✓] 502BC | 10. [✓] 4396B |
| 3. [✓] ZX1379CMX | 7. [] U9912 | 11. [] E5062A |
| 4. [] LCZ 1062 | 8. [] TOS5050 | 12. [] E5071B |

Remark:

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