新弘智

CUSTOMER'S PRODUCT NAME:

EMTEK PRODUCT NAME:

CMF2520F-601-2P-T

THIS SPECIFICATION IS:

「FULLY ACCEPTED

DENIED

ACCEPTED UNDER THE FOLLOWING CONDITIONS

SIGNATURE: DATE:

NAME(PRINT):

TITLE:



SPEC. NO: T-0602-070F

FACTORY:

39,Chingao Rd.,(305)Hsinpu, Hsinchu Hsien,Taiwan,R.O.C

TEL: 03-5894-433 FAX: 03-5894-523

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1. Scope

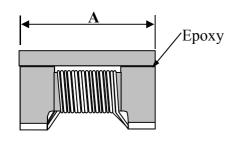
This specification applies ferrite Chip common mode filters CMF2520F-Series to be delivered to user.

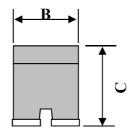
2. Product Identification

<u>CMF</u> 2520 <u>F</u> - 601 - <u>2P</u> - <u>T</u> (1) (2) (3) (4) (5) (6)

- (1) Product name
- (2) Shapes and dimensions
- (3) Shielding Type
- (4) Impedance [at 100MHz] 601:600 Ω
- (5) Number of Line 2P:2-Line
- (6) Taping Type

3. Shapes and Dimensions [Dimensions in mm]

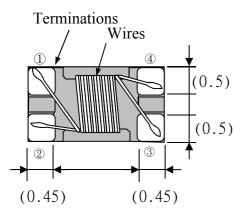


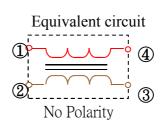


 $A:2.5\pm0.2$

 $B: 2.0 \pm 0.2$

 $C: 1.2 \pm 0.1$





Drawn by	Checked by	Approved by		
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Apr. 6.3017	Par-12-2017	Apr. 6. 2017		

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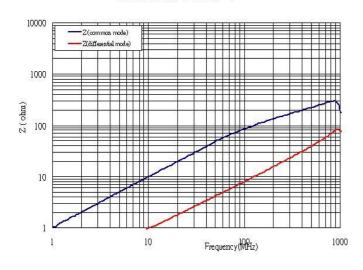
4. Electrical Characterisitics

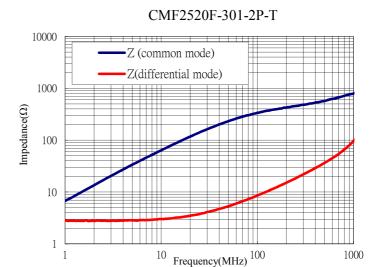
4-1 Electrical Spec.

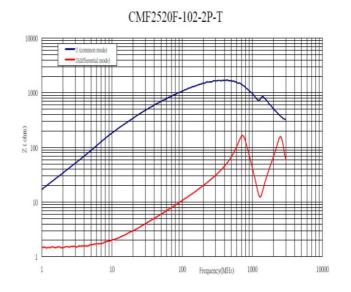
Our Product Part Number	Common-Mode Impedance Z(Ω) at 100MHz	DC Resistance Rdc(Ω) Max.	Rated Current Idc(A) Max.	Rated Voltage Vdc(V)max.
CMF2520F-900-2P-T	90±25%	0.25	0.5	20
CMF2520F-301-2P-T	300±25%	0.35	0.4	20
CMF2520F-601-2P-T	600±25%	0.45	0.3	20
CMF2520F-102-2P-T	1000±25%	0.80	0.2	20

4-2Characteristics(Reference)

CMF2520F-900-2P-T









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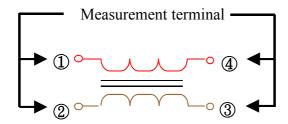
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4-3 Test Equipment

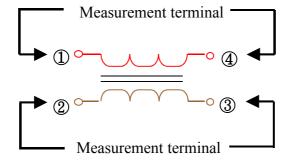
4-3-1 Impedance

Measured by using Agilent E4991A RF Impedance Analyzer.



4-3-2 DC Resistance

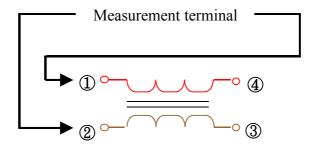
Measured by using Chroma 16502 mill ohm meter.



4-3-3 Insulation Resistance

Measured by using Chroma 19073

Measurement voltage: 50v.



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5.Reliability Test

ng temperature : -25 to +85℃	Storage temp and humidity: 20~25℃,60%RH max.		
Specifications	Test conditions		
Recommendation soldering condition	Apply cream solder to the test circuit board. It is mounted on the recommendation soldering condition. Dip pads in flux and dip in solder pot(96.5 Sn/3.5 Ag solder) at 255°C ±5°C.		
The terminal electrode and the ferrit	Solder a chip to test substrate, and then laterally apply a		
must not be damaged.	load 0.5Kg in the arrow direction. Test Board		
The terminal electrode and the ferrit	Soldering a chip to a test substrate,		
must not be damaged. 45 45	bend the substrate by 2mm and then return.		
	R10 ss base epoxy multiplayer board pattern. Recommended PC board pattern.		
	Specifications It can be connected on the Recommendation soldering condition. The terminal electrode and the ferrit must not be damaged. The terminal electrode and the ferrit must not be damaged. Test board : Glast		

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Item	Specifications	Test conditions	
High	Appearance: Ferrite shall not be	Temperature : +85±2°C	
temperature	damaged.	Applied voltage : Rated voltage	
resistance		Applied current : Rated current	
	initial value.	Testing time: 500±12 hours	
	insulation resistance: $>10(M\Omega)$	Measurement : After placing for 24 hours min.	
	DC resistance : standard value		
Humidity	inside.	Temperature : +85±2°C	
resistance		Humidity: 90 to 95%RH	
		Applied current : Rated current	
		Applied voltage: Rated voltage	
		Testing time: 500±12 hours	
		Measurement : After placing for 24 hours min.	
Thermal		Temperature: -25°C,+85°C	
cycle		kept stabilized for 30 minutes each.	
Cycle		Cycle: 100 cycle	
		Measurement : After placing for 24 hours min.	
Low		-25°C 30 min. 1 cycle 30 min. 3 min. 3 min.	
Low		Temperature : $-25\pm2^{\circ}$ C	
temperature		Testing time: 500±12 hours	
resistance		Measurement : After placing for 24 hours min.	
Vibration	Appearance : Ferrite shall not be damaged.	Frequency: 10 to 50 Hz Amplitude: 1.52 mm Dimension and times: X,Y and Z directions for 2 hours each.	

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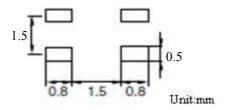
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6. Recommended Soldering Conditions (Please use this product by reflow soldering)

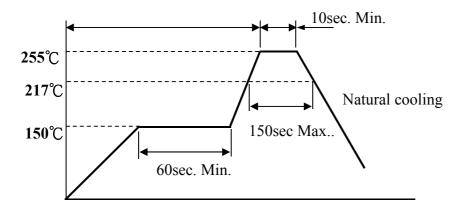
6-1 Recommended Footprint

Termination Number: Please refer to the equivalent circuit in chapter 3.



6-2 Recommended Reflow Pattern

Reflow: until two times



6-3 Iron Soldering

Use a solder iron of less than 30W when soldering ,do not allow the soldering iron tip directly touch the ferrite body outside of terminal electrode.

5 seconds max. at 260°C.

7. Attention in Case of Using

In case of using product ,please avoid following matters:

Splashing water or salt water

Dew condenses

Toxic gas (Hydrogen sulfide, Sulfurous acid, Chlorine, Ammonia)

Vibrations or shocks which exceed the specified condition

Please be careful for the stress to this product by board flexure or something after the mounting.



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8. Others

8-1 Operating temperature range : $-25 \sim +85^{\circ}$ C

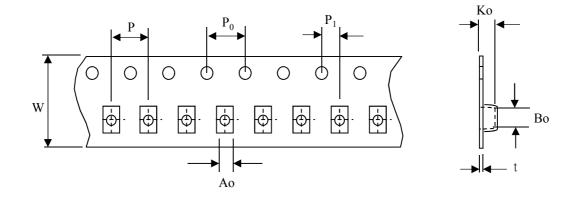
8-2 Storage condition : Temperature $20 \sim 25\,^{\circ}\text{C}$, Relative Humidity $40\% \sim 60\%$

8-3 Recommended wire wound inductors should be used within 6 months from the time of delivery.

9. Packaging

The packaging must be done not to receive any damage during transporting and storing.

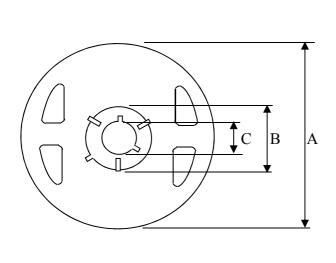
9-1 Tape dimensions

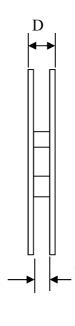


(Dimensions in mm; Tolerance : ± 0.1)

Symbol	W	P	P_0	P_1	Ao	Во	Ko	t
Dimension	8	4	4	2	2.25	2.8	1.35	0.22

9-2 Reel dimensions





(Dimensions in mm)

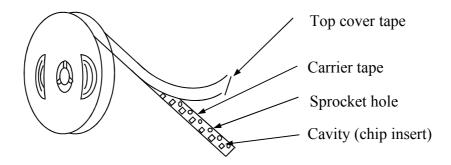
Symbol	Т		
A	180		
В	60		
С	13		
D	14.4		
Е	8.4		

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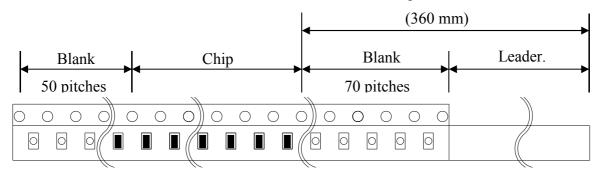


9-3 Tapping figure



9-4 Packaging Form

There shall not continuation more than two vacancies of the product.



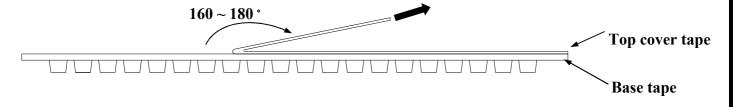
Material of carrier tape : Polystyrene Material of cover tape : Polyester

9-5 Cover Tape Peel Strength

The force for tearing off cover tape is $0.05\sim0.69(N)$ in the arrow direction at the following conditions:

Temperature : $5 \sim 35^{\circ}$ C Humidity : $45 \sim 85\%$

Atmospheric pressure: 860 ~ 1060 hpa



9-6 Packing Quantity

 ϕ 180 mm reel T type : 2000 pcs./reel



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