		SPEC. NO:	NO: T-0602-042D		
新弘智		DATE: Mar. 13, 2019			
CUSTOMER'S PRODUCT NAME:					
EMTEK PRODUCT NAME:					
CMF2012H2-900-2P-	[
THIS SPECIFICATION IS:					
☐ FULLY ACCEPTED					
DENIED			BOHS		
ACCEPTED UNDER THE FOLLOWING CON	DITIONS		COMPLIANT		
SIGNATU		DATE:			
NAME(PR	INT):				
TITLE:					

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FACTORY: 39, Chingao Rd., (305)Hsinpu, Hsinchu Hsien, Taiwan, R. O. C TEL: 03-5894-433 FAX: 03-5894-523

1. Scope

This specification applies ferrite Chip common mode filters CMF2012H2-900-2P-T to be delivered to user.

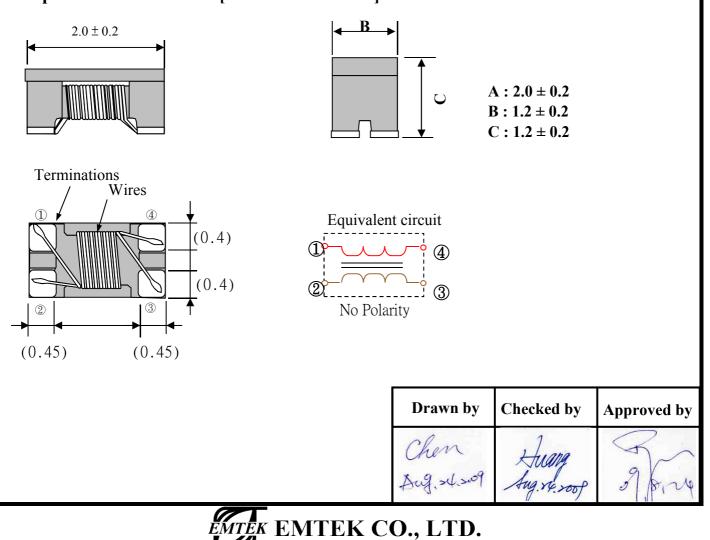
The cutoff frequencyies in differential mode for CMF2012H2 is 6GHz respectively.

2. Product Identification

<u>CMF</u> 2012 H2 - 900 - <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] 130Ω±20%
- (5) Number of Line
 - 2P:2-Line
- (6) Taping Type

3. Shapes and Dimensions [Dimensions in mm]



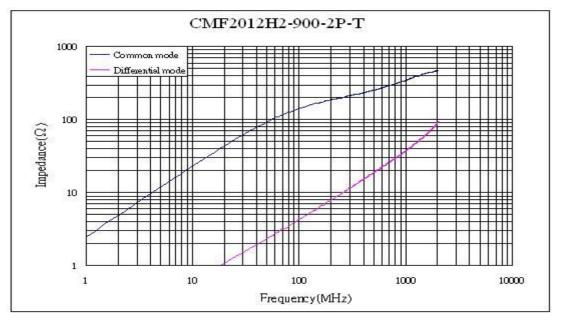
SPEC. NO.

4. Electrical Characterisitcs

4-1 Electrical Spec.

Our Product Part Number	Common-Mode Impedance Z(Ω) at 100MHz	$Rdc(\Omega)$ Max.	Rated Current Idc(mA) Max.	Voltage	Tolerance (±%)	Insulation Resistance (MΩ)Min.
CMF2012H2-900-2P-T	130±20%	0.25	300	50	20%	10

4-2 Characteristics(Reference)

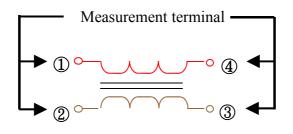




4-3 Test Equipment

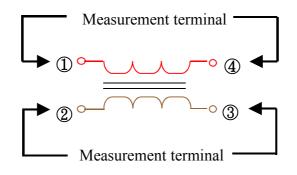
4-3-1 Impedance

Measured by using Agilent E4991A RF Impedance Analyzer.

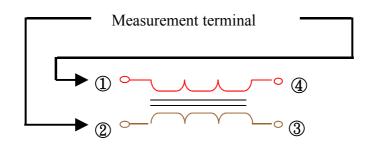


4-3-2 DC Resistance

Measured by using Chroma 16502 mill ohm meter.



4-3-3 Insulation Resistance





SPEC. NO.

KOH

5. Reliability Test

Operating	g temperature : -25 to $+85^{\circ}$ C	Storage temp and humidity : 20~25°C ,60%RH max.				
Item	Specifications	Test conditions				
Solder ability	It can be connected on the	Apply cream solder to the test circuit board .				
	Recommendation soldering	It is mounted on the recommendation soldering condition.				
	condition.					
Terminal	The terminal electrode and	Solder a chip to test substrate , and then				
strength	the ferrite must not be	laterally apply a load 0.5Kg in the arrow				
	damaged.	direction.				
		φ1.0				
		Test Board				
<u></u>						
Strength on	The terminal electrode and the	Soldering a chip to a test substrate ,				
pc board	ferrite must not be damaged.	bend the substrate by 2mm and then return.				
bending						
	45	45				
		Width side				
		100				
	length	Former.				
		Force				
		→				
		×				
		Dimensions in mm				
	R10					
	K10					
	Test board : Glass base epoxy multiplayer board pc board pattern.					
	PC board pattern : Rec	commended PC board pattern.				



SPEC. NO.

T-0602-042D

5. Reliability Test

Item	Specifications	Test conditions			
High	Appearance : Ferrite shall not be	Temperature : +85±2°C			
temperature	damaged.	Applied voltage : Rated voltage			
resistance	Impedance : Within ±20% of	Applied current : Rated current			
	the initial value.	Testing time : 50±12 hours			
	insulation resistance: >	Measurement : After placing for 24 hours min.			
	$10(M\Omega)$				
	DC resistance : standard				
	value inside.				
Humidity		Temperature : $+85\pm2^{\circ}C$			
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 cycle	-	Temperature : -25°C,+85°C			
5		kept stabilized for 30 minutes each.			
		Cycle : 5 cycle			
		Measurement : After placing for 24 hours min.			
		$+85^{\circ}C$ $-25^{\circ}C$ $-25^{\circ}C$ 30 min. 3 min 3 min 3 min			
Low		Temperature : $-25\pm2^{\circ}C$			
temperature		Testing time : 48±12 hours			
resistance		Measurement : After placing for 24 hours min.			
Vibration	Appearance : Ferrite shall not be	Frequency : 10 to 50 Hz			
	damaged.	Amplitude : 1.52 mm			
		Dimension and times : X, Y and Z directions			
		for 2 hours each.			



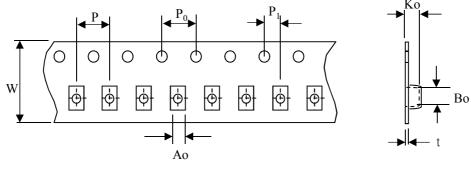
ROH



6.Packaging

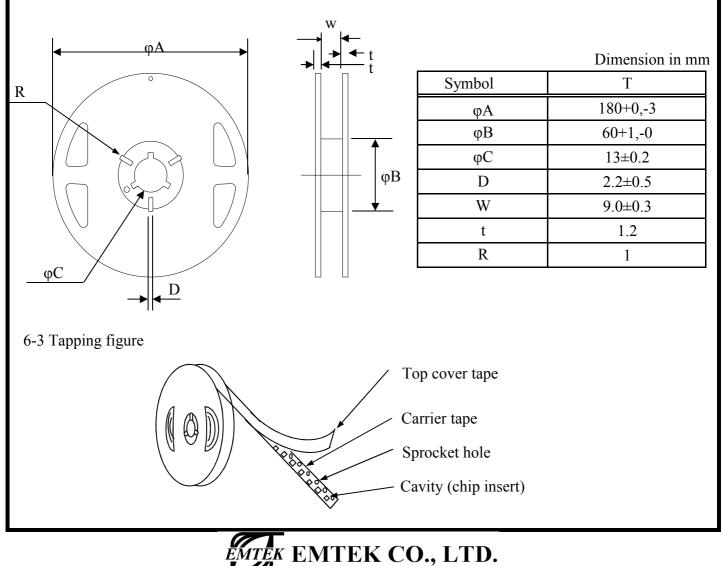
The packaging must be done not to receive any damage during transporting and storing

6-1 Tape dimensions



(Dimensions in mm; Tolerance : ±0.1)								
Symbol	W	Р	P ₀	P ₁	Ao	Bo	Ko	t
Dimension	8	4	4	2	1.5	2.25	1.35	0.24

6-2 Reel dimensions



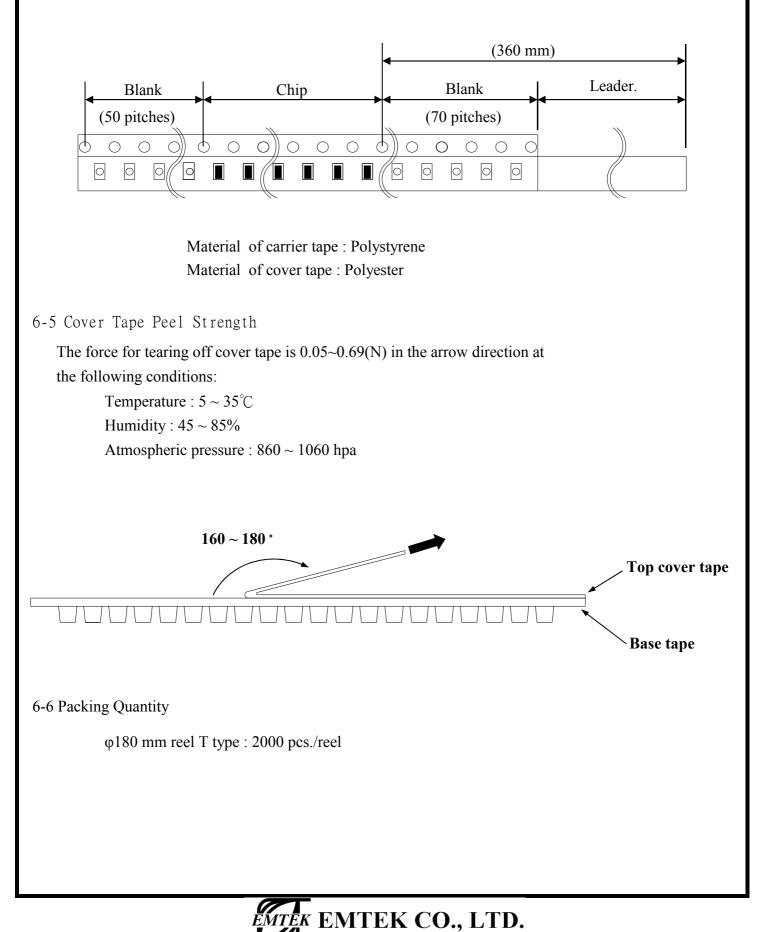
SPEC. NO.

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6-4 Packaging Form

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



PRODUCT SPECIFICATION SPEC. NO. T-

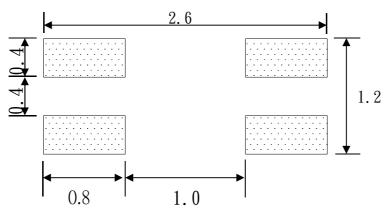
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T-0602-042D

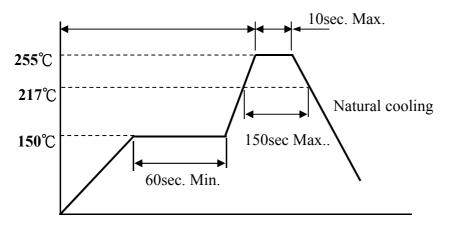
7. Recommended Soldering Conditions (Please use this product by reflow soldering)

7-1 Recommended Footprint

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



7-2 Recommended Reflow Pattern



7-3 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. 4 seconds max. at 260° C.

8. 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.

9. Other

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



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 UALSU16VD40010

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 RN122-3-02-4M5

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 RN242-1.4-02-27M
 EXC-X4CH120X

 DLW5BTM102TQ2L
 CMF16-153131
 CMF23H-273141
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