

Halogen Free & RoHs Compliance

SPECIFICATION FOR APPROVAL

CUSTOMER :			Eltech	
CUSTOMER P/N :				
OUR DWG No :				
QUANTITY :	0	Pcs.	DATE :	2014/06/04
ITEM :		(MF11T-SEF	RIES

	SPECIFICATION ACCEPTED BY:	
COMPONENT		
ENGINEER		
ELECTRICAL		
ENGINEER		
MECHANICAL		
ENGINEER		
APPROVED		
REJECTED		
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奇力新電子(河南)有限公 Chilisin Electronics (Henan) Co XiuWu Xian, industry gathering JiaoZuo, Henan China Postal Code:454350 TEL:+86-391-717-0682 FAX:+86-391-717-0666	., Ltd. 句刀和电丁()穌州 area Chilisin Electronics ()	Suzhou) Co., Ltd. Rd., Suzhou New District, 350
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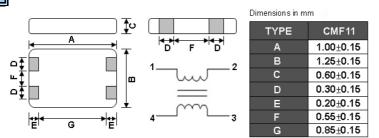
CMF11T Series Specification

Scope: This s	pecification applies to SMD Multilayer co	ommon mode filter
<u>CMF</u> <u>T</u> <u>3</u> Rating: Operating T	ing: Product Identification	
No Markin	g	
	g sting Condition Unless otherwise specified	In case of doubt
	sting Condition	In case of doubt 20±2℃



CMF11T Series Specification

6 Configuration and Dimensions:



7 ELECTRICAL CHARACTERISTICS :

			Rated	Rated	Insulation			
Part No.	Z	RDC	Current	Voltage	Resistance	Tolerance	Test Freq.	
	(Ω)	(Ω)Max.	(mA)Max.	(Vdc)Max.	(MΩ)(min)	(±%)	(MHz)	
CMF11T-670M-N2	67	1.35	100	10	200	20	100	
CMF11T-900M-N2	90	1.45	100	10	200	20	100	

NOTE:
-tolerance M=±20%

1.Operating temperature range $-~4~0~{}^\circ\!{\rm C}\sim 1~0~5~{}^\circ\!{\rm C}$ (Including self - temperature rise)

2.RDC: SINGLE WIRE TEST VALUE

3.Rated current: $\Delta T=30^{\circ}C$

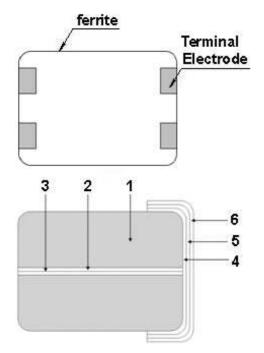
"-N" FOR COMPLETELY LEAD FREE TYPE(INCLUDING FERRITE BODY & SOLDER)



CMF11T Series Specification

8 CMF11T Series

8.1 Construction:



8.2 Material List:

NO	PART	MATERIAL
1	Ferrite substance	NiO-CuO-ZnO-Ferrite
2	Ceramic substance	Al203-Si02-Ceramic
3	Silver electrode	Ag
4	Silver electrode	Ag
5	Ni plating	Ni
6	Sn plating	Sn



CMF11T Series Specification

9 Common Mode Choke / RELIABILITY TEST

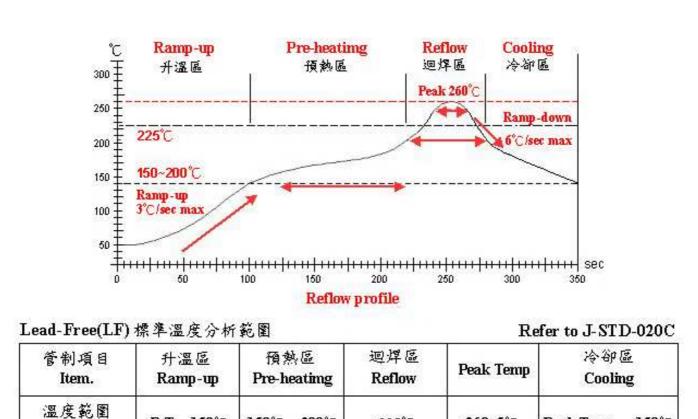
No	ltem	Specification	Test	Method				
1-1-1	Temperature Cycle	Appearance: No Damage	One	cycle:				
		Impedance: within±20% of	Step	Temperature (°C)	Time (min)			
		initial value	1	-40±3	30			
			2	25±2	3			
			3	105±3	30			
			4	25±2	3			
			Tota	: 5 cycles				
			ured After Exposure in The Room	e Room Condition For 1hrs				
1-1-2	Humidity Resistance		Temperature: 40±2°C					
			Relative Humidity: 90 ~ 95%					
			Time: 100hrs					
			Meas	ured After Exposure In The Room	Condition For 1hrs			
1-1-3	High Temperature Resistance		Tem	perature: 85±3°C				
			Time	: 50Hrs				
			Meas	ured After Exposure In The Room	Condition For 1Hrs			
1-1-4	Low Temperature Resistance		Tem	perature: -40±3℃				
			Time	: 50Hrs				
			Meas	ured After Exposure In The Room	Condition For 1Hrs			
1-1-5	High Temperature Load Life	There should be no evidence	Tem	perature: 85±3℃				
		of short or open circle	Load	: Allowed DC Current				
			Time	: 500Hrs				
1-1-6	Humidity Load Life			perature: 40±2°C				
				tive Humidity: 90~95%				
			Load	: Allowed DC Current				
			Time	: 500Hrs				

1-2.N	lechanical Performance	-	
No	Item	Specification	Test Method
1-2-1	Resistance To Soldering Heat	Appearance: No Damage	1. The device should be reflow soldered on PCB
			(peak 260°C ±5°C for 10 seconds)
			2. Solder Composition: Sn/Ag3.0/Cu0.5
			3. Test time: 6 minutes
1-2-2	Solder ability	The electrodes shall be	1. Pre-Heating: 150℃,1min.
		at least 95% covered	2. Solder Composition: Sn/Ag3.0/Cu0.5
		with new solder coating	3. Solder Temperature: 245±5°C.
			4. Immersion Time: 4±1 sec.
1-2-3	Commponent Adhesion	1 Lbs. For CMM11/CMF11	The device should be reflow soldered (245 \pm 5 $^{\circ}$ C For
	(Push Test)	2 Lbs. For other	10 seconds) to a tinned copper substrate. A force guauge
			should be applied to the side of the component.
			The device must withstand a minimum force of 2 pounds
			without a failure of the termination attached to component



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Temp.scope	R.T.~150℃	150°C ~ 200°C	225° C	260±5℃	Peak Temp . ~ $150^\circ C$
實際時間 Time result	1000	60 ~ 180 sec	20 ~ 60 sec	5 ~ 10 sec	a n a

NOTE :

1. Re-flow possible times : within 2 times

2. Nitrogen adopted is recommended while in re-flow



CMF11T Series Specification

11 PACKAGING

11.1 Packaging -Cover tape

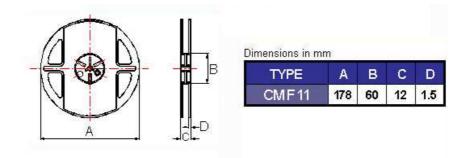
The force for tearing off cover tape is 10 to 100 grams in the arrow direction.



11.2 Packaging Quantity

TYPE	BULK	PCS/REEL			
CMF11	X	4000			

11.3 Reel Dimensions



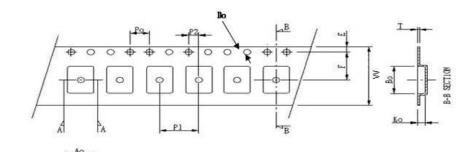


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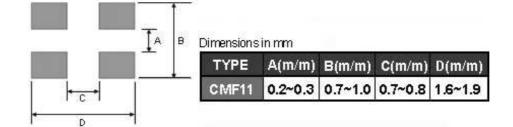
11 PACKAGING

11.4 Tape Dimensions in mm



		A-A SEC	TION						×	v	
TYPE	Ao	Bo	W	E	F	Po	P ₁	P ₂	Do	Т	K₀
CMF11	1.15±0.05	1.5±0.05	8.0 <u>+</u> 0.2	1.75 <u>±</u> 0.05	3.5 <u>+</u> 0.05	4.0±0.1	4.0 <u>±</u> 0.1	2.0 <u>±</u> 0.05	Ф1.5+0.1/-0	0.25 <u>±</u> 0.02	0.72±0.05

12 Recommended Pattern



13 Note:

- 1. Please make sure that your product is has been evaluated and confirmed against your specifications when our product is mounted to your product.
- 2. Do not knock nor drop.
- 3. All the items and parameters in this product specification have been prescribed on the premise that our product is used for the purpose, under the condition and in the environment agreed upon between you and us. You are requested not to use our product deviating from such agreement.
- 4. Please keep the distance between transformer/coil and other components (refer to the standard IEC 950)