

RoHS & Halogen Free & REACH Compliance.

SPECIFICATION FOR APPROVAL

Customer	
Customer	

Customer P/N:

Drawing No :

Quantity :

0

Pcs. Date :

Chilisin P/N:

CPY160808T-SERIES-NP

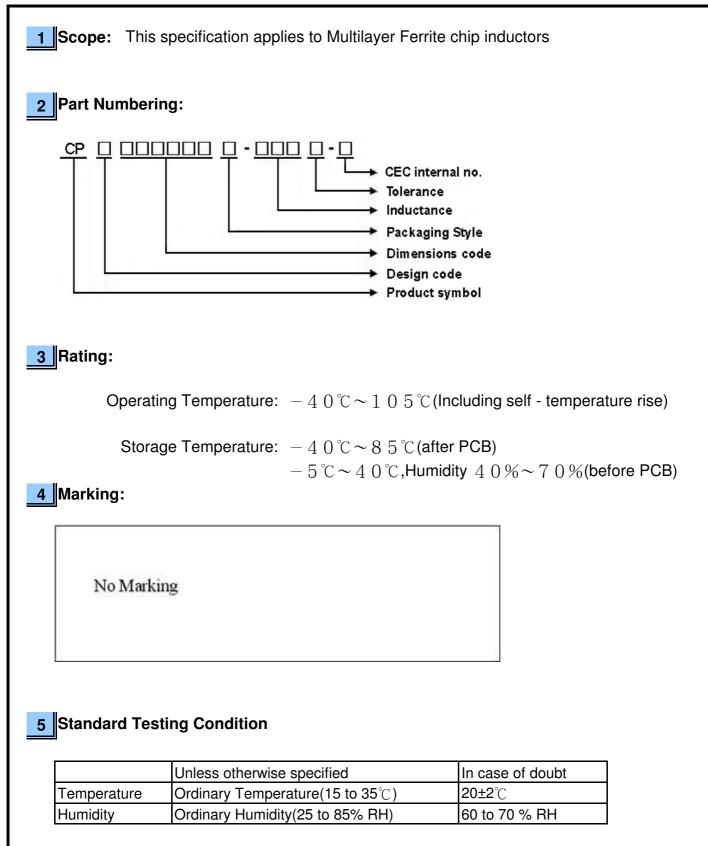
-	PECIFICATION ACCEPTED BY:	
COMPONENT		
ENGINEER		
ELECTRICAL		
ENGINEER		
MECHANICAL		
ENGINEER		
APPROVED		
REJECTED		
奇力新電子股份有限公司 Chilisin Electronic sCorp No. 29, Alley 301, Tehhsin Rd., Hukou,Hsinchu 303, Taiwan TEL:+886-3- 599-2646 FAX:+886-3- 599-9176 E-mail:sales@chilisin.com.tw http://www.chilisin.com.tw	東莞奇力新電子 Chilisin Electronics (No. 78, Puxing Rd., Area, Qingxi Town, I Guangdong,China TEL:+86-769-8773 FAX: +86-769-8773 E-mail:cect@chilisi	Dongguan) Co., Ltd. Yuliangwei Administration Dongguan City, -0251~3 3-0232
奇力新電子(河南)有限公司 Chilisin Electronics (Henan) Co., Ltd. XiuWu Xian, industry gathering area JiaoZuo, Henan China Postal Code:454350 TEL:+86-391-717-0682 FAX:+86-391-717-0666	奇 力新電子(蘇州 Chilisin Electronics (No.143,Song Shan F Suzhou,China Postal Code:215129 TEL:+86-512-6841-2 FAX:+86-512-6841-2	Suzhou) Co., Ltd. Rd., Suzhou New District, 2350

Drawn by **張瑞滿 rammi** Checked by **邱明傑 Joseph.Chiu** Approved by JACKY鍾 jacky.chung



S16949 CHILISIN ELECTRONICS CORP.

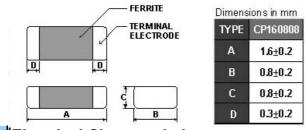
CPY160808T Series Specification





CPY160808T Series Specification

6 Configuration and Dimensions:



7 Electrical Characteristics:

			Rated	
Inductance	Test Freq.	RDC	Current	Tolerance
(uH)		(Ω)Max.	(mA)Max.	(±%)
1	1 MHz,200 mV	0.12	1500	20,30
2.2	1 MHz,200 mV	0.2	1000	20,30
4.7	1 MHz,200 mV	0.25	800	20,30
10	1 MHz,200 mV	0.9	90	20,30
	(uH) 1 2.2 4.7	(uH) 1 1 MHz,200 mV 2.2 1 MHz,200 mV 4.7 1 MHz,200 mV	(uH)(Ω)Max.11 MHz,200 mV0.122.21 MHz,200 mV0.24.71 MHz,200 mV0.25	Inductance (uH) Test Freq. (Ω)Max. RDC (Ω)Max. Current (mA)Max. 1 1 MHz,200 mV 0.12 1500 2.2 1 MHz,200 mV 0.2 1000 4.7 1 MHz,200 mV 0.25 800

NOTE: D-tolerance M=±20% / T=±30%

1.Operating temperature range $-~4~0~\%\sim1~0~5~\%$ (Including self - temperature rise)

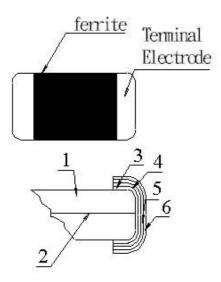
2.Rate Current : Applied the current to coils, the temperature rise shall not be more than $30^\circ\!\mathrm{C}$

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



CPY160808T Series Specification

8 CPY160808T Series 8.1 Construction:



8.2 Material List:

NO	PART	MATERIAL
1	Ferrite Substance	NiO-CuO-ZnO-Ferrite
2	Silver electrode	Ag
3	Silver electrode	Ag
4	Cu plating	Cu
5	Ni plating	Ni
6	Sn plating	Sn



CPY160808T Series Specification

9 Reliability Of Ferrite Multilayer Chip Inductor

lo	Item	Specification	Test Method
-1-1	Flexure Strength	The forces applied on the right	Test device shall be soldered on the substrate
		conditions must not damage	Substrate Dimension: 100x40x1.6mm
		the terminal electrode and the	Deflection: 2.0mm
		ferrite	Keeping Time: 30sec
			*For 100505, substrate dimension is 100x40x0.8mm
1-1-2	Vibration		Test device shall be soldered on the substrate
			Oscillation Frequency: 10 to 55 to 10Hz for 1min
			Amplitude: 1.5mm
			Time: 2hrs for each axis (X, Y & Z), total 6hrs
1-1-3	Resistance to Soldering Heat	Appearance: No damage	Pre-heating: 150°C, 1min
		More than 75% of the terminal	Solder Composition: Sn/Ag3.0/Cu0.5(Pb-Free)
		electrode should be covered	Solder Temperature: 260±5°C
		with solder.	Immersion Time: 10±1sec
		Inductance: within ±20% of	
		initial value	
1-1-4	Solder ability	The electrodes shall be at	Pre-heating: 150°C, 1min
		least 95% covered with new	Solder Composition: Sn/Ag3.0/Cu0.5(Pb-Free)
		solder coating	Solder Temperature: 245 ± 5 $^{\circ}$ C (Pb-Free)
	1		Immersion Time: 4±1sec

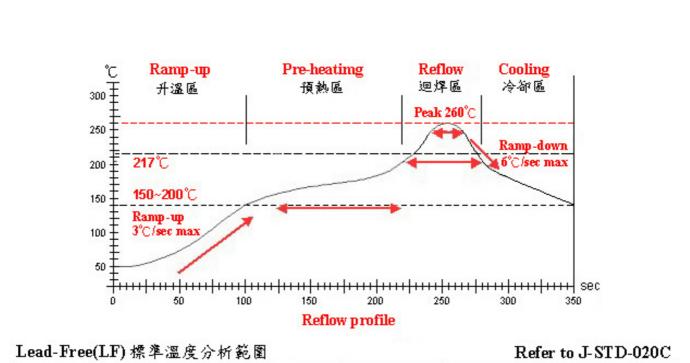
1-2.Environmental Performance

No	Item	Specification	Test Method				
1-2-1	Temperature Cycle	Appearance: No damage	One cycle:				
		Inductance:within±20% of	Step	Temperature ($^\circ C$)	Time (min)		
		initial value	1	-40±3	30		
			2	25±2	3		
			3	105±3	30		
			4	25±2	3		
			Total: 1000	cycles	-		
			Measured	after exposure in the room co	ndition for 24hrs		
1-2-2	Humidity Resistance		Temperature: $40\pm2^{\circ}$ C Relative Humidity: 90 ~ 95% / Time: 1000hrs				
			Measured	after exposure in the room co	ndition for 24hrs		
1-2-3	High		Temperature: 85±3℃				
	Temperature Resistance		Relative H	umidity: 20%			
			Applied Cu	rrent: Rated Current / Time: 1	000hrs		
			Measured	after exposure in the room co	ndition for 24hrs		
1-2-4	Low		Temperature: -40±3℃				
	Temperature Resistance		Relative H	umidity: 0% / Time: 1000hrs			
			Measured	after exposure in the room co	ndition for 24hrs		



CHILISIN ELECTRONICS CORP.

CPY160808T Series Specification



管制項目 Item.	升溫區 Ramp-up	預熱區 Pre-heatimg	迴焊區 Reflow	Peak Temp	冷卻區 Cooling
溫度範圍 Temp.scope	R.T. ~150℃	150°C ~ 200°C	21 7℃	260±5° ℃	Peak Temp. ~ 150℃
標準時間 Time spec.	-	60 ~ 180 sec	60 ~ 150sec	20 ~ 40 sec	-
	_	75 ~ 100 sec	90 ~ 120 sec	20 ~ 35 sec	_

NOTE :

1. Re-flow possible times : within 2 times

2. Nitrogen adopted is recommended while in re-flow

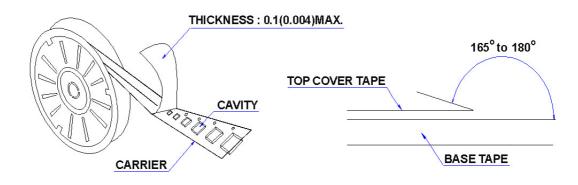


CPY160808T Series Specification

11 Packaging:

11.1 Packaging -Cover Tape

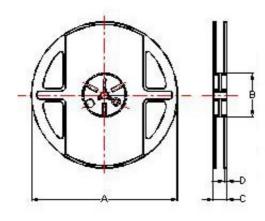
The force for tearing off cover tape is 10 to 100 grams in the arrow direction.



11.2 Packaging Quantity

ТҮРЕ	BULK	PCS/REEL
CP160808	1	4000
CP201209	1	4000
CP201212	1	3000
CP 32 16 11	1	3000

11.3 Reel Dimensions



Dimensions	in mm			
ТҮРЕ	A	В	С	D
CP Series	178	60	12	1.5

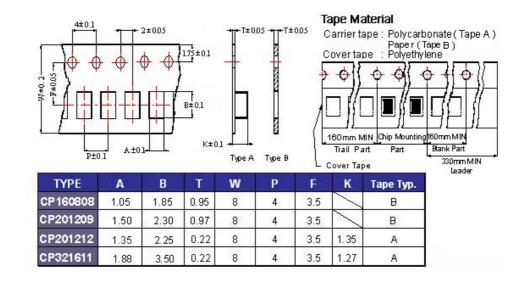


9 CHILISIN ELECTRONICS CORP.

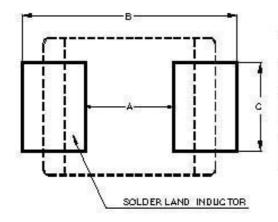
CPY160808T Series Specification

11 Packaging:

11.4 Tape Dimensions in mm



12 Recommended Land Pattern:



Dimensions in mm						
TYPE	Α	В	C			
CP160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~0			
CP201209	1.0 ~ 1.2	2.6 ~4.0	1.0~1			
CP201212	1.0 ~ 1.2	2.6 ~4.0	1.0~1			
		the second second second				

2.0

4.2~5.2

1.2

13 Note:

1. Please make sure that your product has been evaluated and confirmed against your specifications when our product is mounted to your product.

CP321611

- 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)

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Fixed Inductors category:

Click to view products by Chilisin manufacturer:

Other Similar products are found below :

 CR32NP-100KC
 CR32NP-151KC
 CR32NP-180KC
 CR32NP-181KC
 CR32NP-185MC
 CR32NP-390KC
 CR32NP-389MC
 CR32NP

 680KC
 CR32NP-820KC
 CR32NP-8R2MC
 CR43NP-390KC
 CR43NP-560KC
 CR43NP-680KC
 CR54NP-181KC
 CR54NP-470LC

 CR54NP-820KC
 CR54NP-8R5MC
 70F224AI
 MGDQ4-00004-P
 MHL1ECTTP18NJ
 MHQ1005P10NJ
 MHQ1005P1N0S
 MHQ1005P2N4S

 MHQ1005P3N6S
 MHQ1005P5N1S
 MHQ1005P8N2J
 PE-51506NL
 PE-53601NL
 PE-53630NL
 PE-53824SNLT
 PE-92100NL

 PG0434.801NLT
 PG0936.113NLT
 9220-20
 9310-16
 PM06-2N7
 PM06-39NJ
 A01TK
 1206CS-471XJ
 HC2LP-R47-R
 HC3

 2R2-R
 HCF1305-3R3-R
 1206CS-151XG
 RCH664NP-140L
 RCH664NP-4R7M
 RCH8011NP-221L
 RCP1317NP-332L
 RCP1317NP-391L