

RoHS & Halogen Free & REACH Compliance.

SPECIFICATION FOR APPROVAL

Customer :			超利維	
Customer P/N:				
Drawing No :			IE1-8B03	65
Quantity :	X	Pcs.	Date :	2018/11/21
Chilisin P/N:		HPPC	08050B-R22	2M-Q8BDF

	SPECIFICATION ACCEPTED BY:
COMPONENT	
ENGINEER	
ELECTRICAL	
ENGINEER	
MECHANICAL	
ENGINEER	
APPROVED	
REJECTED	

奇力新電子股份有限公司

Chilisin Electronics Corp 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 http : //www.chilisin.com

奇力新電子(越南廠)有限公司

Chilisin Electronics (Vietnam) Limited No 143 - 145, Road No 10, VSIP Hai Phong, Lap Le Commune, Thuy Nguyen Dist, Haiphong City, Vietnam Tel : 84-316 255 688 Fax : 84-316 255 689 E-mail : sales@chilisin.com

東莞奇力新電子(東莞廠)有限公司

Chilisin Electronics (Dongguan) Co., Ltd. No. 78, Puxing Rd., Yuliangwei Administration Area, Qingxi Town, Dongguan City, Guangdong,China TEL: +86-769-8773-0251~3 FAX: +86-769-8773-0232 E-mail: cect@chilisin.com

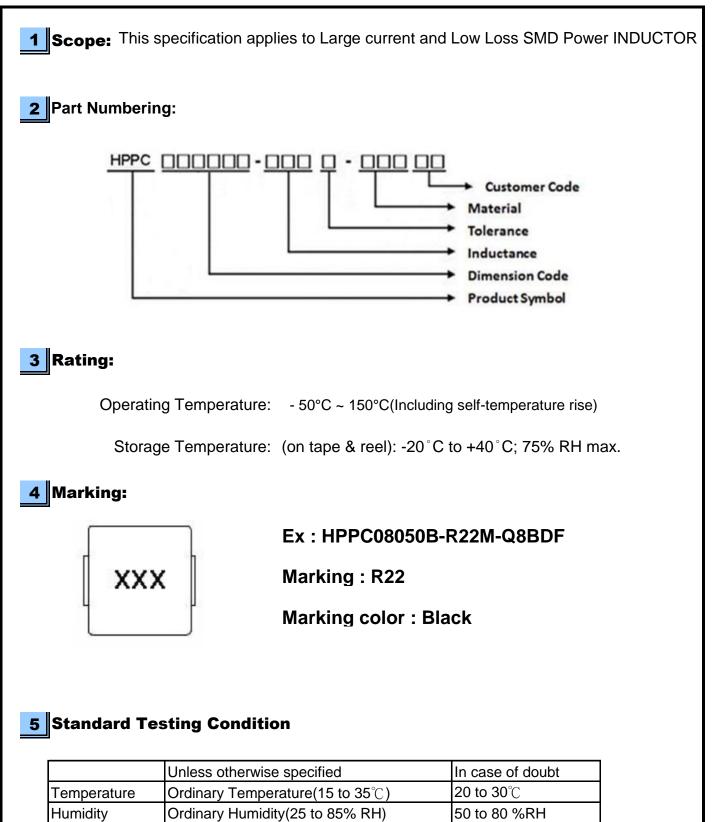
奇力新電子(湖南廠)有限公司

HuNan Chilisin Electronics Technology Co., Ltd No. 8, Shaziao Liangshuijing Town, Yuanling County, Huaihua City, Hunan Province 419601, China Tel : 86-745-867-5882 E-mail : cect@chilisin.com

Drawn by 吳韋邑 **Wayne.Wu** Checked by 吳韋邑 Wayne.Wu Approved by 劉建志 Richard.Liu



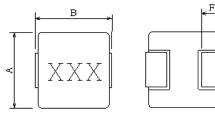
HPPC08050B Series Specification





HPPC08050B Series Specification

6 Configuration and Dimensions:



	۲ →	
_		

TYPE	HPPC08050B
А	8.1 ± 0.2
В	8.7 ± 0.3
С	5.0 Max
D	3.0 ± 0.5
F	1.6 ± 0.5

Dimensions in mm

7 Electrical Characteristics:

Part No.	Inductance (uH)	Tolerance (±%)	Test Freq.	Irms(A) Max(Typ)	Isat(A) Max(Typ)	RDC(mΩ) Max(Typ)	Marking
HPPC08050B-R22M-Q8BDF	0.22	20	100kHz,0.5V	33(38)	60(70)	0.75(0.65)	R22

Note:

1.Operating temperature range -50°C ~150°C (Including self - temperature rise)

2.Isat for Inductance drop 30% from its value without current.

3.Irms for a 40°C temperature rise from 25°C ambient.

4. The part temperature (ambient + temp rise) should not exceed 150°C under worst case operating conditions.

Circuit design 150°C under worst case operating conditions. Component placement, PWB trace size

and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature

should be verified in the end application.

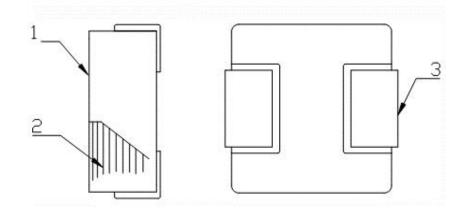
5.Absolute maximum voltage 30VDC



HPPC08050B Series Specification

8 HPPC08050B Series

8.1 Construction:



8.2 Material List:

No	Part	Material
1	COATING+ CORE	CARBONYL IRON POWDERS
2	WRE	COPPER WIRE
3	TERMINAL	TERMINAL COPPER

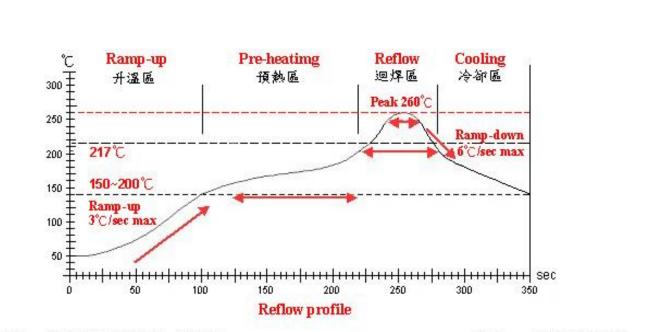


HPPC08050B Series Specification

A No	Item	Specification		Test Method			
	Vibration	Appearance: No damage	Test device shall be soldered on the substrate				
		Inductance:within±10% of Oscillation Frequency: 10 to 55 to 10Hz for 1min					
		initial value					
			Time: 2hrs for each axis (X, Y & Z), total 6hrs				
1-1-2	Resistance to Soldering Heat	Appearance: No damage	ge Pre-heating: 150°C, 1min				
			Composition: Sn/Ag3.0/Cu0.5				
			Solder	Temperature: 260±5℃			
			Immers	ion Time: 10±1sec			
1-1-3	Solder ability	The electrodes shall be at	Pre-hea	ating: 150 $^\circ\!\!\mathbb{C}$, 1min			
		least 95% covered with new	Solder	Composition: Sn/Ag3.0/Cu0.5			
		solder coating	Solder	Temperature: 245±5°C			
			Immers	ion Time: 4±1sec			
		There must be no change in	e in Inductors must withstand 6 minutes of alcohol o				
		appearance or obliteration of					
		marking.					
	nvironmental Performanc						
No	Item	Specification	Test Method				
1-2-1	Temperature Shock	Appearance: No damage	10 cycles (Air to Air) 1 cycles shall consist of:				
		Inductance:within±10% of	30 minutes exposure to $-55 ^{\circ}\text{C}$				
		initial value	30 minutes exposure to 125 $^{\circ}$ C				
			15 seconds maximum transition between to				
1-2-2	Temperature Cycle		One cy				
			Step	Temperature (°C)	Time (min)		
			1	-55±3	30		
			2 3	25±2	3		
			3 4	125±3	30		
				25±2	3		
				00cycles	ion for Othro		
	Humidity Desistance			red after exposure in the room condit rature: 40±2°C	1011101 241115		
1 2 2			rembe				
1-2-3	Humidity Resistance						
1-2-3	numicity Resistance		Relativ	e Humidity: 90 ~ 95%			
1-2-3	numiony Resistance		Relativo Time: 1	e Humidity: 90 ~ 95% 000hrs	ion for 24brs		
			Relative Time: 1 Measur	e Humidity: 90 ~ 95% 000hrs ed after exposure in the room condit	ion for 24hrs		
	Heat Life		Relative Time: 1 Measur Tempe	e Humidity: 90 ~ 95% 000hrs red after exposure in the room condit rature: 85±3℃	ion for 24hrs		
			Relative Time: 1 <u>Measur</u> Tempe Relative	e Humidity: 90 ~ 95% 000hrs red after exposure in the room condit rature: 85±3°C e Humidity: 20%	ion for 24hrs		
			Relative Time: 1 Measur Tempe Relative Appliec	e Humidity: 90 ~ 95% 000hrs red after exposure in the room condit rature: 85±3℃ e Humidity: 20% I Current: Rated Current	ion for 24hrs		
			Relative Time: 1 Measur Tempe Relative Appliec Time: 1	e Humidity: 90 ~ 95% 000hrs red after exposure in the room condit rature: 85±3°C e Humidity: 20% I Current: Rated Current 000hrs			
1-2-4	Heat Life		Relative Time: 1 Measur Tempe Relative Applied Time: 1 Measur	e Humidity: 90 ~ 95% 000hrs red after exposure in the room condit rature: 85±3℃ e Humidity: 20% I Current: Rated Current 000hrs red after exposure in the room condit			
1-2-4			Relative Time: 1 Measur Tempe Relative Applied Time: 1 Measur Tempe	e Humidity: 90 ~ 95% 000hrs red after exposure in the room condit rature: 85±3°C e Humidity: 20% I Current: Rated Current 000hrs red after exposure in the room condit rature: -55±3°C			
1-2-4	Heat Life		Relative Time: 1 Measur Tempe Relative Applied Time: 1 Measur Tempe Relative	e Humidity: 90 ~ 95% 000hrs red after exposure in the room condit rature: 85±3℃ e Humidity: 20% I Current: Rated Current 000hrs red after exposure in the room condit			



HPPC08050B Series Specification



Lead-Free(LF) 標準溫度分析範圍

Refer to J-STD-020C

管制項目 Item.			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	5
實際時間 Time result		75 ~ 100 sec	90 ~ 120sec	20 ~ 35 sec	6.

NOTE :

1. Re-flow possible times : within 2 times

2. Nitrogen adopted is recommended while in re-flow



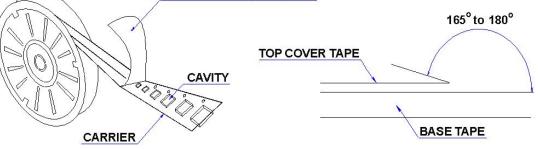
HPPC08050B Series Specification

10 PACKAGING

10.1 Packaging -Cover tape

The force for tearing off cover tape is 10 to 130 grams in the arrow direction.

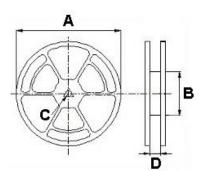
THICKNESS: 0.1(0.004)MAX.



10.2 Packaging Quantity

TYPE	PCS/REEL
HPPC08050B	500

10.3 Reel Dimensions



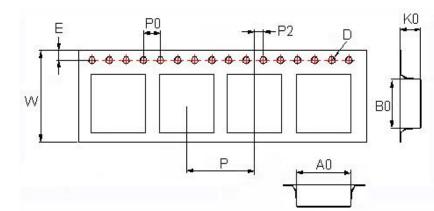
Dimensions in mm							
TYPE	Α	В	С	D			
HPPC08050B	330	100	13	24.4			



HPPC08050B Series Specification

10 PACKAGING





ТҮРЕ	A0	B0	K0	D	E	W	Р	P0	P2
HPPC08050B	8.45	9.4	5.25	1.55	1.75	24	16	4	2

11 Recommended Pattern

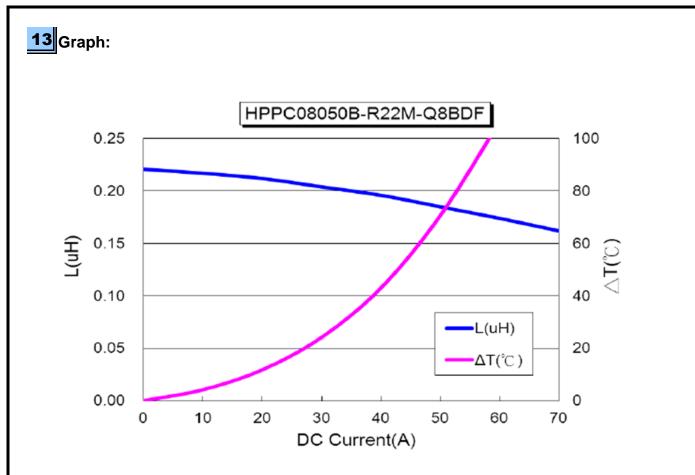
+	В					
F 87777		777	Dimensions in mm			
		\square	TYPE	A(mm)	B(mm)	C(mm)
Î			HPPC08050B	4.0	4.9	9.2
	С					

12 Note:

- 1. Please make sure that your product 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)
- 5. The moisture sensitivity level (MSL) of products is classified as level 1.



HPPC08050B Series Specification



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 :

MLZ1608M6R8WTD25 MLZ1608N6R8LT000 MLZ1608N3R3LTD25 MLZ1608N3R3LT000 MLZ1608N150LT000 MLZ1608M150WTD25 MLZ1608M3R3WTD25 MLZ1608M3R3WT000 MLZ1608M150WT000 MLZ1608A1R5WT000 MLZ1608N1R5LT000 B82432C1333K000 PCMB053T-1R0MS PCMB053T-1R5MS PCMB104T-1R5MS CR32NP-100KC CR32NP-151KC CR32NP-180KC CR32NP-181KC CR32NP-1R5MC CR32NP-390KC CR32NP-3R9MC CR32NP-680KC CR32NP-820KC CR32NP-8R2MC CR43NP-390KC CR43NP-560KC CR43NP-680KC CR54NP-181KC CR54NP-470LC CR54NP-820KC CR54NP-8R5MC MGDQ4-00004-P MGDU1-00016-P MHL1ECTTP18NJ MHL1JCTTD12NJ PE-51506NL PE-53601NL PE-53630NL PE-53824SNLT PE-62892NL PE-92100NL PG0434.801NLT PG0936.113NLT PM06-2N7 PM06-39NJ HC2LP-R47-R HC2-R47-R HC3-2R2-R HC8-1R2-R