

TO :			文件编号	HXA-L40-23(01)
			发行日期	2020年05月20日
	承	认规格	书	
	系列号	: <u>SMD Power Cl</u> : <u>HXPC0624H</u> - :	Series	
		· 户 承 认 相		
承	认日期	年	月	
	(贵司承认后请3 厦门华信安电	^{密署一份返回华信} 子科技有限公		3
	承认	确认	作成	
	龙梅	梁峰	王亮	
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SMD Power Choke Coil

HXPC0624H-Series

	ECN HISTORY LIST								
REV	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN				
1.0	20/05/20	新發行	龙梅	梁峰	王亮				
備									
注									

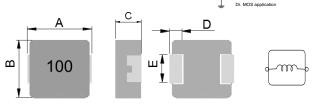
1. Features

- 1. Magnetic metal powder inductor.
- 2. Compact design.
- 3. High current , low DCR , high efficiency.
- 4. Very low acoustic noise and very low leakage flux noise.
- 5. High reliability.
- 6. 100% Lead(Pb)-Free and RoHS compliant.

2. Applications

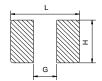
Note PC power system , incl. IMVP-6 DC/DC converter .

3. Dimensions



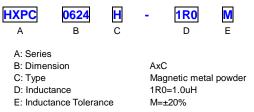


Recommend PC Board Pattern



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	L(mm)	G(mm)	H(mm)
HXPC0624H	7.0±0.3	6.6±0.2	2.2±0.2	1.6±0.3	3.0±0.3	0~-2.0	8.4	3.7	3.5

4. Part Numbering



5. Specification

ISND Part Number	Inductance L0 (uH)±20% @ 0 A	l sat (A) Typ.	l rms (A) Typ.	DCR(mΩ) Max.@25℃
HXPC0624H-R22M	0.22	34	21	3
HXPC0624H-R33M	0.33	24.5	18	4.1
HXPC0624H-R47M	0.47	22	15	5.1
HXPC0624H-R56M	0.56	17	13	6.5
HXPC0624H-R68M	0.68	16	12	7
HXPC0624H-1R0M	1.0	15	9	13.5
HXPC0624H-1R5M	1.5	13.5	8.2	20
HXPC0624H-2R2M	2.2	10	7	28
HXPC0624H-3R3M	3.3	8	5.5	39
HXPC0624H-4R7M	4.7	6.5	5	50
HXPC0624H-6R8M	6.8	6	4	70
HXPC0624H-100M	10	4	3.1	101
HXPC0624H-150M	15	3.3	2.5	160
HXPC0624H-220M	22	2.5	2	230

Note:

- 1. Test frequency : L : 100KHz /1.0V;
- 2. All test data referenced to 25°C ambient.
- 3. Testing Instrument : L/Q: HP4284A,CH11025,CH3302,CH1320 ,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
- 4. Heat Rated Current (Irms) will cause the coil temperature rise approximately Δ t of 40°C (keep 1min.).
- 5. Saturation Current (Isat) will cause L0 to drop 30% typical. (keep quickly).
- 6. The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component, PCB trace size and

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

6. Material List



NO	Items	Materials			
1	Core	Magnetic metal powder or equ.			
2	Wire	Polyester Wire or equivalent.			
3	Solder Plating	100% Pb free solder			
4	paint	Epoxy resin			
5	Ink	Ink(black)			

7. Reliability and Test Condition

Performance	Test Condition	
-55~+125°C		
110~+40℃,50~60%RH (Product with taping) 240~+125℃ (on board)		
t		
Defects standard starting sharest sisting list	HP4284A,CH11025,CH3302,CH1320,CH1320S LCR Meter.	
	CH16502,Agilent33420A Micro-Ohm Meter.	
△ L20% typical.	Saturation DC Current (Isat) will cause L0 to drop △ L(%)(keep quickly).	
Approximately △ T≦ 40°C	Heat Rated Current (Irms) will cause the coil temperature rise △ T(°C) without core loss. 1.Applied the allowed DC current(keep 1 min.). 2.Temperature measured by digital surface thermometer	
	Temperature:125±2°C. Duration:1000±12hrs. Measured at room temperature after placing for 2 to 3hrs. (MIL-PRF-27) Humidity:85±3%RH. Temperature:85±2°C.	
	Duration:1000±12hrs. Measured at room temperature after placing for 2 to 3hrs (AEC-Q200-REV C)	
Electric specifications should be satisfied	Condition for 1 cycle Step1:-40+0 / -2°C 15±1 min. Step2:Room temperature within ≤ 0.2 min. Step3:+125+2 / -0°C 15±1min. Number of cycles:300 Measured at room temperature after placing for 2 to 3 hrs. (AEC-Q200-REV C)	
	Frequency: 10-2000-10Hz for 20 min. Amplitude: Parts mounted within 2" from any secure point. Directions and times: X, Y, Z directions for 20 min. This cycle shall be performed 12 times in each of three mutually perpendicular directions (Total 12hours). (MIL-STD-202 Method 204 D Test condition B) Pre-heat : 150±5°C	
	Duration : 5 minutes	
	Temperature : 260±5°C , 20~40 seconds (IPC/JEDEC J-STD-020C)	
	After dip into flux, dip into solder	
Terminals should be covered by over 95% solder on visual inspection	235±5°C , 4±1seconds Flux 、 solder for lead free (ANSI /J-STD-002C Method B)	
	-55-+125°C 110-+40°C,50-60%RH (Product with taping) 240-+125°C (on board) t Refer to standard electrical characteristics list. △ L20% typical. Approximately △ T≦ 40°C	

8. Soldering and Mounting

(1) Soldering

Mildly activated rosin fluxes are preferred. The minimum amount of solder can lead to damage from the stresses caused by the difference in coefficients of expansion between solder, chip and substrate. The terminations are suitable for re-flow soldering systems. If hand soldering cannot be avoided, the preferred technique is the utilization of hot air soldering tools.

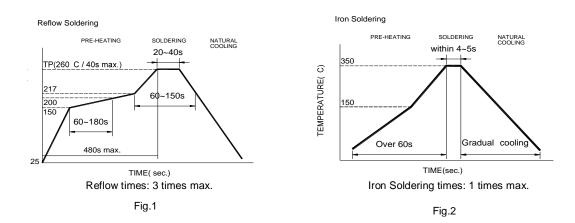
(2) Solder re-flow:

Recommended temperature profiles for re-flow soldering in Figure 1.

(3) Soldering Iron:

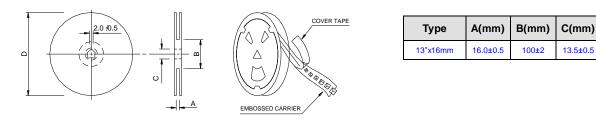
Products attachment with a soldering iron is discouraged due to the inherent process control limitations. In the event that a soldering iron must be employed the following precautions are recommended.

- · Preheat circuit and products to 150°C · Never contact the ceramic with the iron tip · Use a 20 watt soldering iron with tip diameter of 1.0mm · 355°C tip temperature (max)
 - · 1.0mm tip diameter (max)
 - · Limit soldering time to 4~5sec.

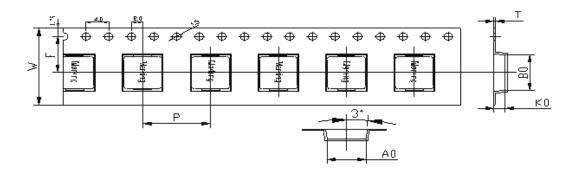


9. Packaging Information

(1) Reel Dimension



(2) Tape Dimension

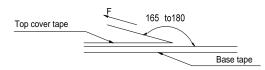


Se	ries	Size	Bo(mm)	Ao(mm)	Ko(mm)	P(mm)	W(mm)	F(mm)	t(mm)
н	(PC	0624	7.8±0.1	7.1±0.1	3.3±0.1	12.0±0.1	16±0.3	7.5±0.1	0.35±0.05

(3) Packaging Quantity



(4) Tearing Off Force



Application Notice

- Storage Conditions
- To maintain the solderability of terminal electrodes:
- 1. ISND products meet IPC/JEDEC J-STD-020D standard-MSL, level 1.
- 2. Temperature and humidity conditions: Less than 30°C and 70% RH.
- 3. Recommended products should be used within 6 months form the time of delivery.
- 4. The packaging material should be kept where no chlorine or sulfur exists in the air.
- Transportation
- 1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
- 2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
- 3. Bulk handling should ensure that abrasion and mechanical shock are minimized.

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D(mm)

330

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

Room atm

(hPa)

860~1060

Tearing Speed

mm/min

300

direction under the following conditions(referenced

Room Humidity

(%)

45~85

ANSI/EIA-481-C-2003 of 4.11 stadnard).

Room Temp.

(°C)

5~35

单击下面可查看定价,库存,交付和生命周期等信息

>>ISND(华信安)