

RoHS & Halogen Free & REACH Compliance.

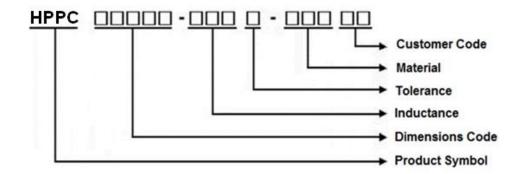
SPECIFICATION FOR APPROVAL

Customer :		:	超利維			
Drawing No :	 IE1-8B0365					
Drawing No .		IE I	1-0003			
Quantity:	X Po	cs. Da	ite:	2018/11/21		
Chilisin P/N:	Н	IPPC1204	40-R33	M-Q8ADF		
		FICATIO				
COMPONENT	ACCE	PTED BY	<u>′:</u>			
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. 303, Taiwan TEL: +886-3-599-2646 FAX: +886-3-599-9176 E-mail: sales@chilisin.com http://www.chilisin.com		Chilisin Elec No. 78, Pux	ctronics (D king Rd., Y n, Donggu 769-8773-0 -769-8773-	0232		
奇力新電子(越南廠)有限 Chilisin Electronics (Vietnam) L No 143 - 145, Road No 10, VS Lap Le Commune, Thuy Nguye Haiphong City, Vietnam Tel: 84-316 255 688 Fax: 84 E-mail: sales@chilisin.com	imited IP Hai Phong, en Dist,	HuNan Chil No. 8, Shaz	isin Electro ziao Liangs aihua City, 5-867-5882			
Drawn by	Che	ecked by		Approved by		



HPPC12040 Series Specification

- 1 Scope: This specification applies to Large current and Low Loss SMD Power INDUCTOR
- 2 Part Numbering:

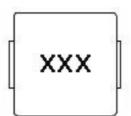


3 Rating:

Operating Temperature: - 55°C ~ 125°C

Storage Temperature: (on tape & reel): -20 °C to +40 °C; 75% RH max.

4 Marking:



Ex: HPPC12040-R33M-Q8ADF

Marking: R33

Marking color: Black

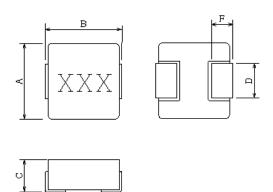
5 Standard Testing Condition

	Unless otherwise specified	In case of doubt
Temperature	Ordinary Temperature(15 to 35°ℂ)	20 to 30°C
Humidity	Ordinary Humidity(25 to 85% RH)	50 to 80 %RH



HPPC12040 Series Specification

6 Configuration and Dimensions:



TYPE	HPPC12040
Α	12.6 ± 0.2
В	13.65 ± 0.35
С	3.8 ± 0.2
D	3.5 ± 0.5
F	2.5 ± 0.5

7 Electrical Characteristics:

Part No.	Inductance (uH)	Tolerance (±%)	Test Freq.	Irms(A) Typ	Isat(A) Typ	RDC(mΩ) Max	Marking
HPPC12040-R33M-Q8ADF	0.33	20	100kHz,0.5V	45	67	0.65	R33

Note:

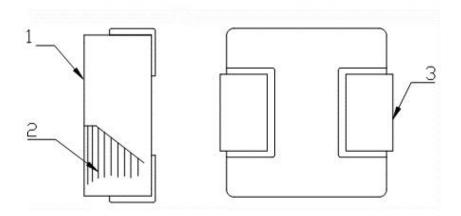
- 1. Operating temperature range -55° C ~125° C
- 2.Isat for Inductance drop 30% from its value without current.
- 3.Irms for a 40 $^{\circ}\mathrm{C}$ temperature rise from 25 $^{\circ}\mathrm{C}$ ambient.
- 4.The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design 125°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 30 VDC



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8 HPPC12040 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

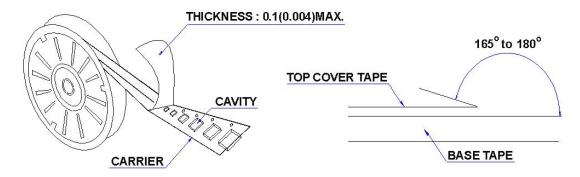


HPPC12040 Series Specification

9 PACKAGING

9.1 Packaging -Cover tape

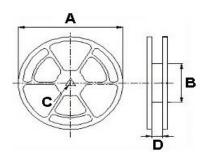
The force for tearing off cover tape is 10 to 130 grams in the arrow direction.



9.2 Packaging Quantity

TYPE	PCS/REEL
HPPC12040	500

9.3 Reel Dimensions



Dimensions in mm

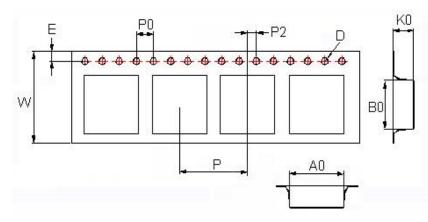
TYPE	Α	В	C	D
HPPC12040	330	100	13	24.4



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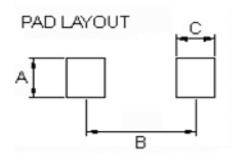
9 PACKAGING

9.4 Tape Dimensions in mm



TYPE	A0	В0	K0	D	E	W	P	P0	P2
HPPC12040	13	14.6	4.25	1.55	1.75	24	16	4	2

10 Recommended Pattern



Dimensions in mm

TYPE	A(mm)	B(mm)	C(mm)
HPPC12040	5.5	11.25	3.25

11 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.



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