



ISO9001 & ISO14001 & TS16949 **CHILISIN ELECTRONICS CORP.**

RoHS & Halogen Free & REACH Compliance.

Form No.: QF-1274
Edition: 2

SPECIFICATION FOR APPROVAL

Customer : MEGASAN

Customer P/N:

Drawing No :

Quantity : 0 Pcs. Date : 2018/12/13

Chilisin P/N : BPSC00070745221M00

SPECIFICATION ACCEPTED BY:

COMPONENT
ENGINEER

ELECTRICAL
ENGINEER

MECHANICAL
ENGINEER

APPROVED

REJECTED

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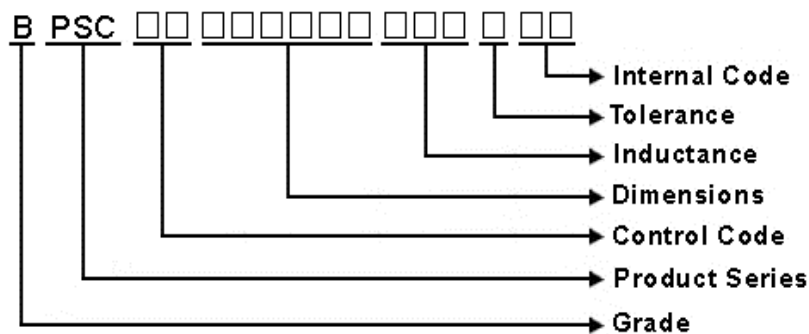
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YG18C00690

BPSC00070745 Series Specification

1 Scope: This specification applies to SMD Shielded Power Choke

2 Part Numbering:



3 Rating:

Operating Temperature: $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$ (Including self - temperature rise)

Storage Temperature: $20^{\circ}\text{C} \sim 25^{\circ}\text{C}$ R.H. 65% (In Tape & Reel Condition)

4 Marking:



Ex Marking:100

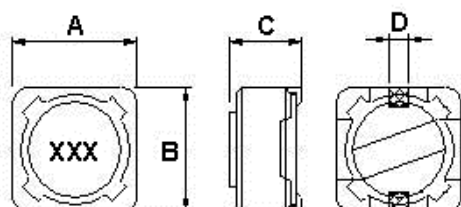
Marking color : Black

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

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6 Configuration and Dimensions:



Dimensions in mm

TYPE	070745
A	7.3±0.2
B	7.3±0.2
C	4.5 Max.
D	1.8

7 Electrical Characteristics:

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat (A)	Tolerance	Marking
BPSC000707451R5□00	1.5	1 kHz, 1 V	0.02	5	M	1R5
BPSC000707451R8□00	1.8	1 kHz, 1 V	0.025	4	M	1R8
BPSC000707452R2□00	2.2	1 kHz, 1 V	0.025	3.5	M,T	2R2
BPSC000707452R7□00	2.7	1 kHz, 1 V	0.03	3.5	M,T	2R7
BPSC000707453R3□00	3.3	1 kHz, 1 V	0.035	3.5	M,T	3R3
BPSC000707453R6□00	3.6	1 kHz, 1 V	0.035	3.2	M,T	3R6
BPSC000707454R7□00	4.7	1 kHz, 1 V	0.035	3	M,T	4R7
BPSC000707456R8□00	6.8	1 kHz, 1 V	0.045	2.5	M	6R8
BPSC00070745100□00	10	1 kHz, 1 V	0.049	1.84	M	100
BPSC00070745120□00	12	1 kHz, 1 V	0.058	1.71	M	120
BPSC00070745150□00	15	1 kHz, 1 V	0.081	1.47	M	150
BPSC00070745180□00	18	1 kHz, 1 V	0.091	1.31	M	180
BPSC00070745220□00	22	1 kHz, 1 V	0.11	1.23	M	220
BPSC00070745270□00	27	1 kHz, 1 V	0.15	1.12	M	270
BPSC00070745330□00	33	1 kHz, 1 V	0.17	0.96	M	330
BPSC00070745390□00	39	1 kHz, 1 V	0.23	0.91	M	390
BPSC00070745470□00	47	1 kHz, 1 V	0.26	0.88	M	470
BPSC00070745560□00	56	1 kHz, 1 V	0.35	0.75	M	560
BPSC00070745680□00	68	1 kHz, 1 V	0.38	0.69	M	680
BPSC00070745820□00	82	1 kHz, 1 V	0.43	0.61	M	820
BPSC00070745101□00	100	1 kHz, 1 V	0.61	0.6	M	101
BPSC00070745121□00	120	1 kHz, 1 V	0.66	0.52	M	121
BPSC00070745151□00	150	1 kHz, 1 V	0.88	0.46	M	151
BPSC00070745181□00	180	1 kHz, 1 V	0.98	0.42	M	181
BPSC00070745221□00	220	1 kHz, 1 V	1.17	0.36	K,M	221

NOTE: □-tolerance K=±10% / M=±20% / T=±30%

1. Operating temperature range - 40 °C ~ 105 °C (Including self - temperature rise)

2. Isat for Inductance drop 35% from its value without current.



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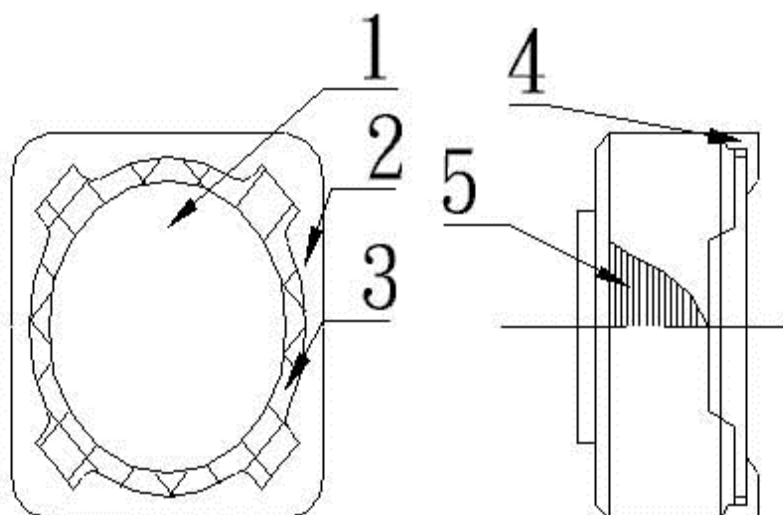
BPSC00070745 Series Specification

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat (A)	Tolerance	Marking
BPSC00070745271□00	270	1 kHz,1 V	1.64	0.34	K,M	271
BPSC00070745331□00	330	1 kHz,1 V	1.86	0.32	K,M	331
BPSC00070745391□00	390	1 kHz,1 V	2.85	0.29	K,M	391
BPSC00070745471□00	470	1 kHz,1 V	3.01	0.26	K,M	471
BPSC00070745561□00	560	1 kHz,1 V	3.62	0.23	K,M	561
BPSC00070745681□00	680	1 kHz,1 V	4.63	0.22	K,M	681
BPSC00070745821□00	820	1 kHz,1 V	5.2	0.2	K,M	821
BPSC00070745102□00	1000	1 kHz,1 V	6	0.18	K,M	102

BPSC00070745 Series Specification

8 BPSC00070745 Series

8.1 Construction:



8.2 Material List:

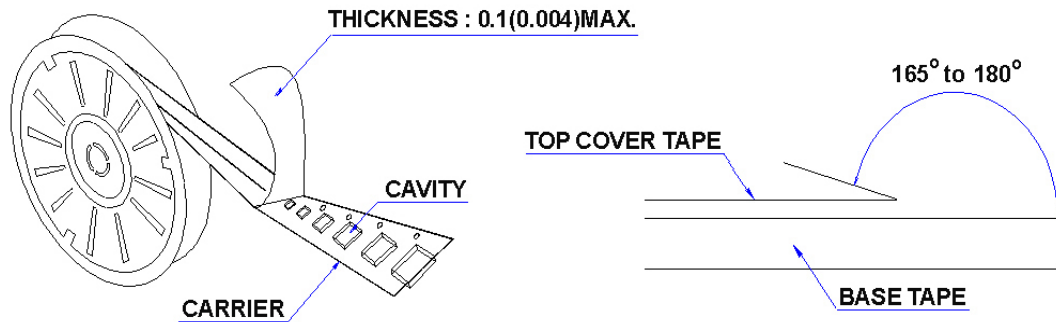
No	Part	Material
1	CORE	FERRITE
2	CORE	FERRITE
3	EPOXY	
4	TERMINAL	TERMINAL COPPER
5	WIRE	MAGNET WIRE

BPSC00070745 Series Specification

9 Packaging:

9.1 Packaging -Cover Tape

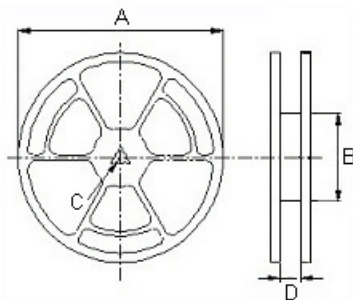
The force for tearing off cover tape is 10 to 130 grams in the arrow direction.



9.2 Packaging Quantity

TYPE	PCS/REEL
070734	1600
070745	1000
131345	500
131360	600
131380	500

9.3 Reel Dimensions



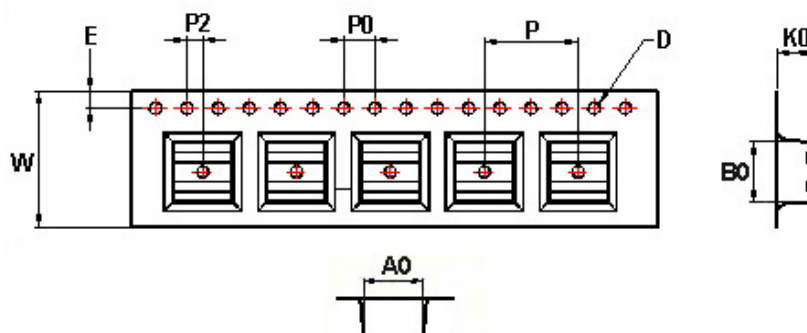
Dimensions in mm

TYPE	A	B	C	D
070734	330	100	13	16.0
070745	330	100	13	16.0
131345	330	100	13	24.4
131360	330	100	13	24.4
131380	330	100	13	24.4

BPSC00070745 Series Specification

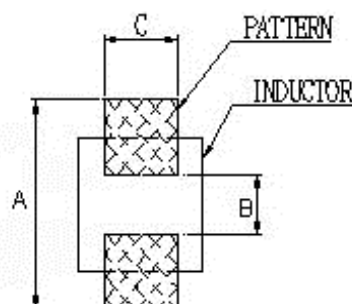
9 Packaging:

9.4 Tape Dimensions in mm



TYPE	A0	B0	K0	D	E	W	P	P0	P2
070745	7.6	7.6	5.0	1.55	1.75	16	12	4	2

10 Recommended Land Pattern:



Dimensions in mm

TYPE	A	B	C
070745	8.4	4.4	2.2

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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12 Graph: BPSC00070745221M00

