RoHS & Halogen Free & REACH Compliance.

SPECIFICATION FOR APPROVAL

Customer：	
Customer P/N:	
Drawing No：	
Quantity：	**1 Set. Date： 2024.05.15**
Pulse Series：	**BPPM00485023**

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

Chilisin Electronics Corp
No. 29, Alley 301, Tehhsin Rd.,
Hukou,Hsinchu 303, Taiwan
TEL：+886-3- 599-2646
FAX：+886-3- 599-9176

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

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

HuNan Chilisin Electronics Technology Co., Ltd
No. 8, Shaziao Liangshuijing Town,
Yuanling County, Huaihua City,
Hunan Province 419601, China

Drawn by	Checked by	Approved by
Rammi	**Marco**	**Vincent**

Pulse
a YAGEO company

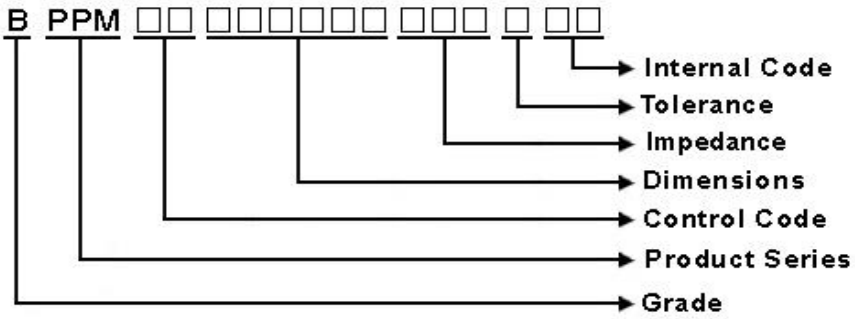
REVISIONS

REV.	Description	Date	Approvaled by	Checked by	Checked by	Prepared by
00	Issue	2024.05.15	Vincent	Marco	Sara	Rammi

BPPM00485023 Series Specification

1 Scope: This specification applies to the Pb Free Common mode filters

2 Part Numbering:



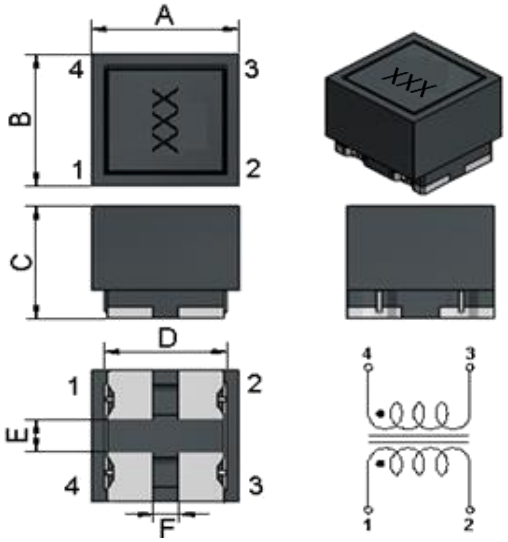
3 Rating:

Operating Temperature: - 40°C ~ + 125°C (Including self temp. rise)
Storage Temperature: (on tape & reel): -20°C to +40°C; 75% RH max

4 Standard Testing Condition

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

5 Configuration and Dimensions and Unit Weight:



Ex Marking:102
Marking Color: Black

A:	**4.8±0.30**	**mm**
B:	**5.0±0.30**	**mm**
C:	**2.3±0.20**	**mm**
D:	**3.5±0.20**	**mm**
E:	**2.2±0.20**	**mm**
F:	**1.1±0.20**	**mm**

Net Weight (grms)

SIZE CODE	Net Weight (grms)
485023	0.216(typ.)

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6 Electrical Characteristics:

Part No.	Impedance(Ω) Typ. @10MHz	Impedance(Ω) Typ. @100MHz	RDC(mΩ) ±40%	Irms (A)Max.	Rated Voltage (V)Max.	Withstanding voltage (V)Max.	Insulation Resistance (MΩ)Min.	Marking
BPPM00485023101X00	–	100	10	6	50	125	10	101
BPPM00485023251X00	20	250	14	5	50	125	10	251
BPPM00485023501X00	30	500	19	4	50	125	10	501
BPPM00485023102X00	60	1000	24	3	50	125	10	102
BPPM00485023142X00	100	1400	40	2	50	125	10	142
BPPM00485023152X00	100	1500	40	2	50	125	10	152

NOTE:

1.Irms： Based on temperature rise (△T：40℃ Typ.)

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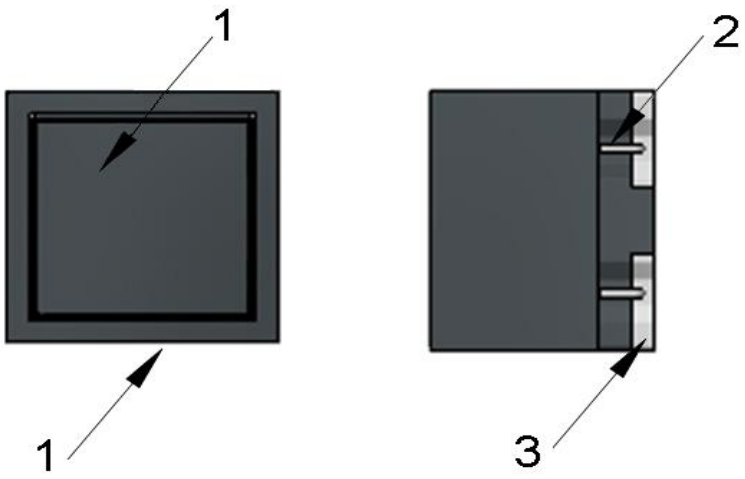
7 7.1 Construction:



7.2 Material List:

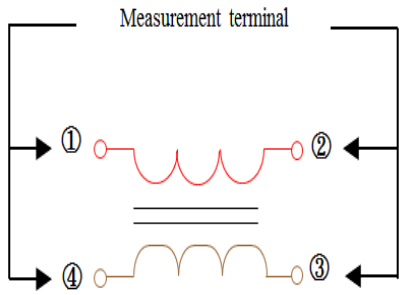
NO	Part	Material
1	Core	Ferrite
2	Wire	Magnet Wire
3	Terminal	Ag/Ni/Sn

BPPM00485023 Series Specification

TEST EQUIPMENT

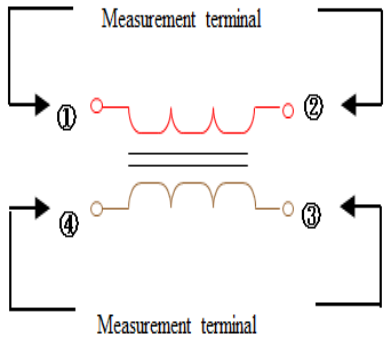
1. Impedance

Measured by HP 4291B RF Impedance Analyzer.



2. DC Resistance

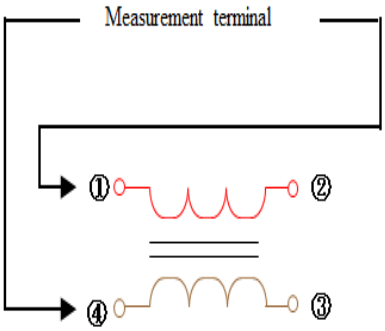
Measured by Chroma 16502 mill ohm meter



3. Insulation Resistance

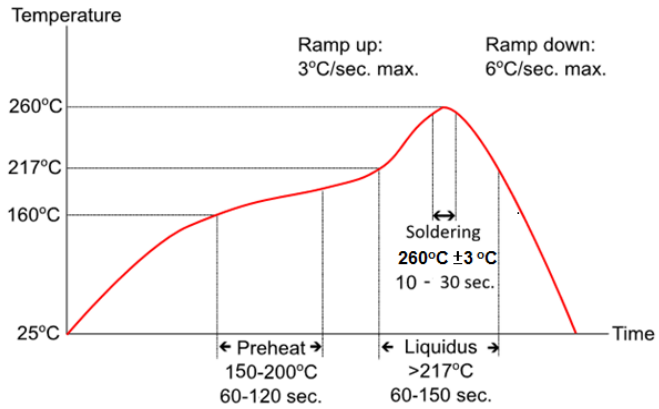
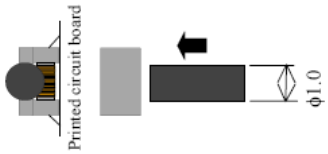
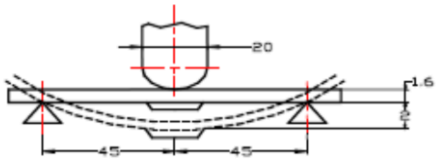
Measured by Chroma 19073

Measurement voltage: 50v, Measurement time: 3.0 sec.



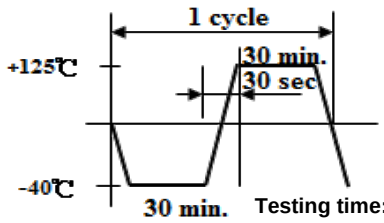
BPPM00485023 Series Specification

MECHANICAL

TEST ITEM	SPECIFICATIONS	TEST CONDITIONS
Solder ability	The product shall be connected to the test circuit board by the fillet (the height is 0.2mm).	Apply cream solder to the printed circuit board . Refer to clause 8 for Reflow profile.
Resistance to Soldering heat (reflow soldering)	There shall be no damage or problems.	Temperature profile of reflow soldering  Note: 1. Re-Flow Possible times:within 2 times 2. Nitrogen adopted is recommended while in re-flow
Terminal strength	The terminal electrode and the ferrite must not damaged.	Solder a chip to test substrate , and then laterally apply a load 9.8N in the arrow direction. 
Strength on PC board bending	The terminal electrode and the ferrite must not damaged.	Test device shall be soldered on the substrate Substrate Dimension: 100x40x1.6mm Deflection: 2.0mm Keeping Time: 60 sec 
High temperature resistance	Impedance:Within±20% of the initial value. Insulation resistance and DC resistance on the specification(refer to clause 2-1) shall be met. The terminal electrode and the ferrite must not damaged.	After the samples shall be soldered onto the test circuit board,the test shall be done. Measurement : After placing for 24 hours min. Temperature : +125±2℃ Applied voltage : Rated voltage Applied current : Rated current Testing time : 500±12 hours

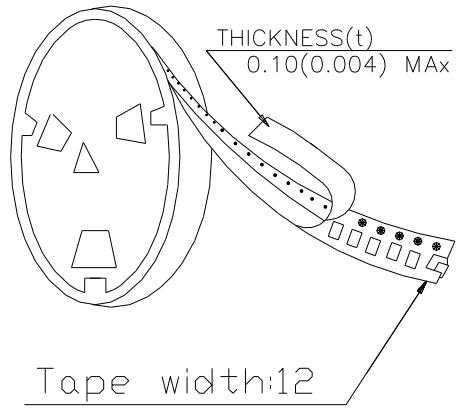
BPPM00485023 Series Specification

ENVIRONMENT CHARACTERISTICS

TEST ITEM	SPECIFICATIONS	TEST CONDITIONS
Humidity resistance	Impedance:Within±20% of the initial value. Insulation resistance and DC resistance on the specification(refer to clause 2-1) shall be met. The terminal electrode and the ferrite must not damaged.	After the samples shall be soldered onto the test circuit board,the test shall be done. Measurement : After placing for 24 hours min. Temperature : +85±2℃ , Humidity : 85 %RH Applied voltage : Rated voltage Applied current : Rated current Testing time : 500±12 hours
Thermal shock	Impedance:Within±20% of the initial value. Insulation resistance and DC resistance on the specification(refer to clause 2-1) shall be met. The terminal electrode and the ferrite must not damaged.	 Testing time:1000 cycle
Low temperature storage	Impedance:Within±20% of the initial value. Insulation resistance and DC resistance on the specification(refer to clause 2-1) shall be met. The terminal electrode and the ferrite must not damaged.	After the samples shall be soldered onto the test circuit board,the test shall be done. Measurement : After placing for 24 hours min. Temperature : -40±2℃ Testing time : 500±12 hours
Vibration	Impedance:Within±20% of the initial value. Insulation resistance and DC resistance on the specification(refer to clause 2-1) shall be met. The terminal electrode and the ferrite must not damaged.	After the samples shall be soldered onto the test circuit board,the test shall be done. Frequency : 10 to 55 Hz Amplitude : 1.52 mm Dimension and times : X ,Y and Z directions for 2 hours each.
Solderability	The electrodes shall be at least 90% covered with new solder coating.	Flux (rosin, isopropyl alcohol{JIS-K-1522}) shall be coated over the whole of the sample before hard, the sample shall then be preheated for about 2 minutes in a temperature of 130～150℃ and after it has been immersed to a depth 0.5mm below for 3±0.2 seconds fully in molten solder M705 with a temperature of 245±5℃. More than 90% of the electrode sections shall be couered with new solder smoothly when the sample is taken out of the solder bath.

8 Packaging:

8.1 Packaging -Cover Tape

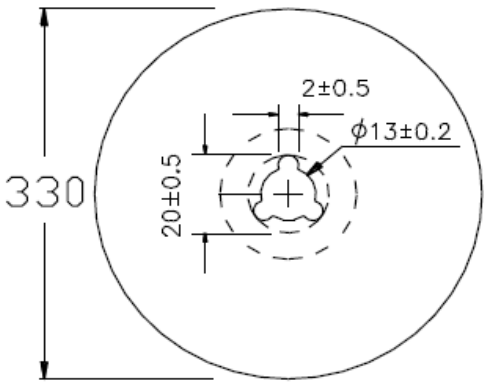


8.2 Packaging Quantity

TYPE	PCS/REEL
485023	2500

8.3 Reel Dimensions

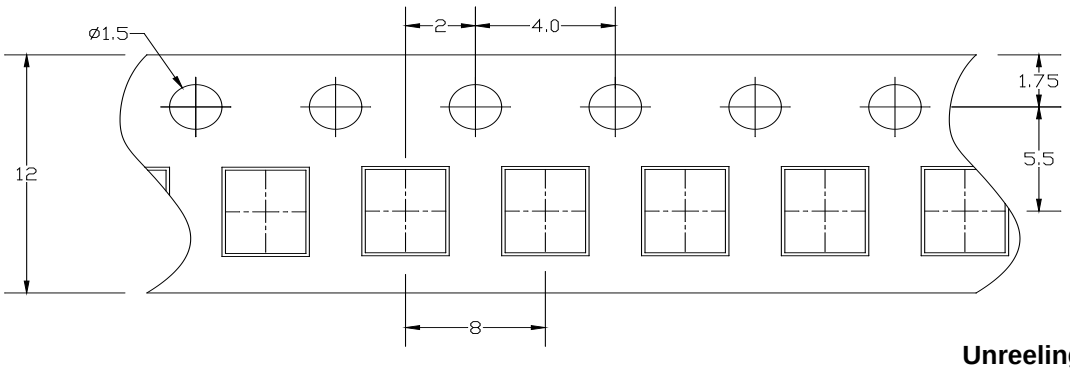
Unit : mm



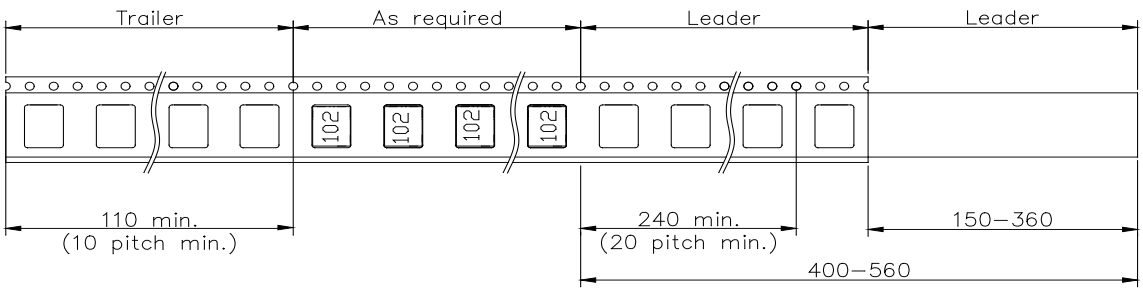
BPPM00485023 Series Specification

8 Packaging:

8.4 Tape Dimensions in mm



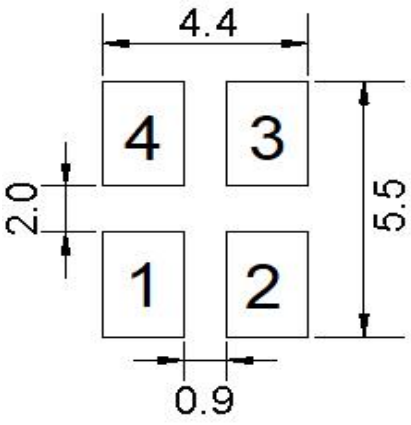
Unreeling Direction



Marking non-directional printing

9 Recommended Land Pattern:

(STANDARD PATTERN) Unit : mm



BPPM00485023 Series Specification

10 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 or 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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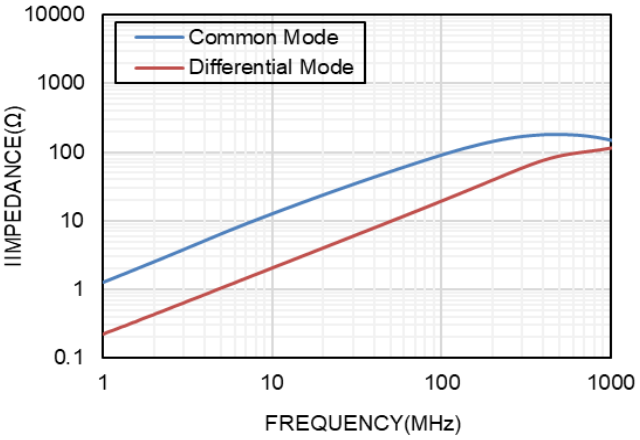
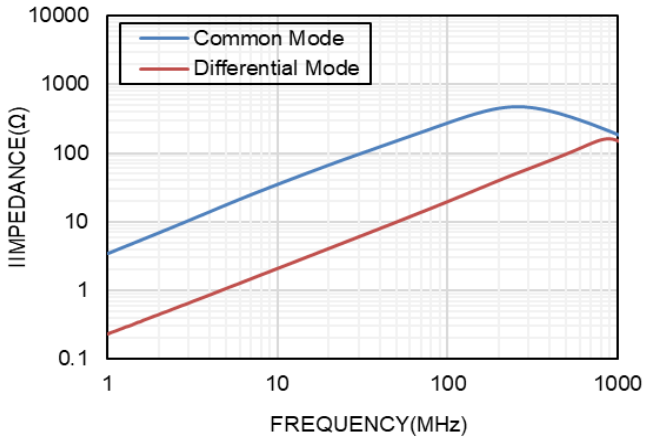
BPPM00485023 Series Specification

Graph:

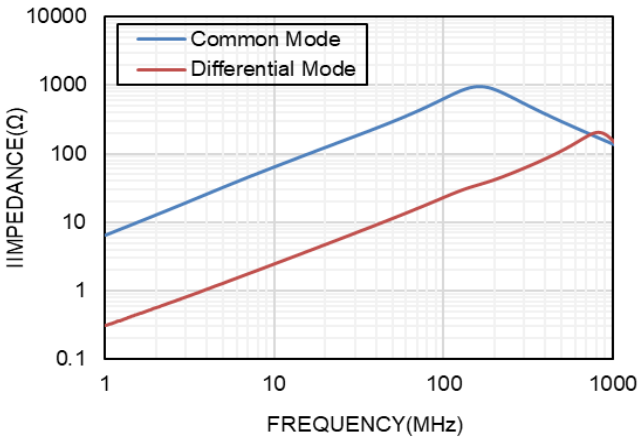
BPPM00485023101X00



BPPM00485023251X00



BPPM00485023501X00



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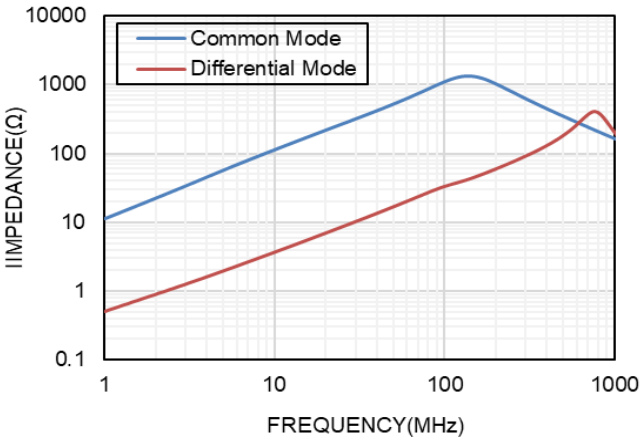

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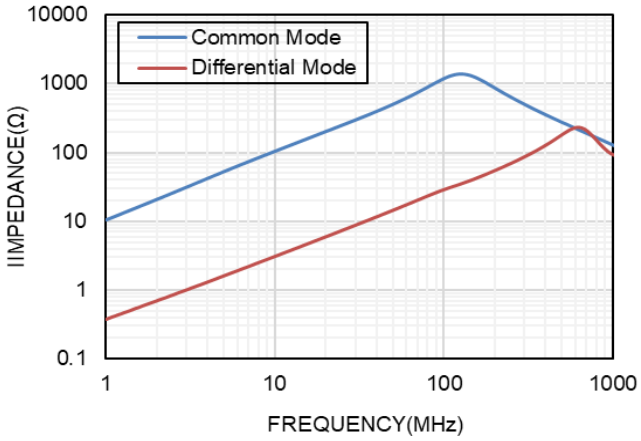

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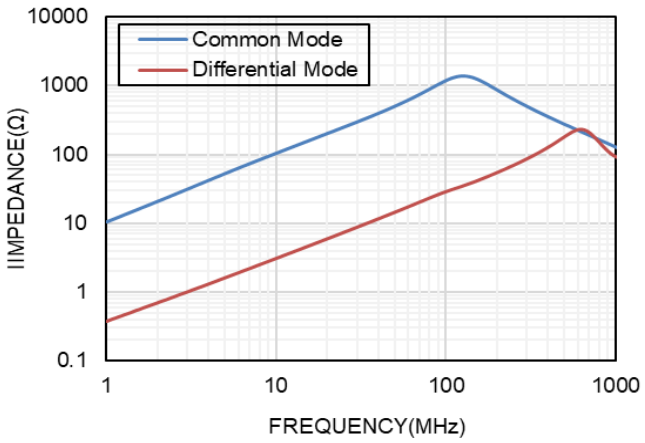

ATTACHMENT-1

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Pulse:

BWQV00322520560J00 BWQV003225206R8J00 BWQV00453226100J00 BWQV00453226120J00 BWQV003225208R2J00 BWQV003225205R6J00