

Form No.: QF-1274

Edition: 2

### ISO9001 ISO14001 IATF16949 CHILISIN ELECTRONICS CORP.

RoHS & Halogen Free & REACH Compliance.

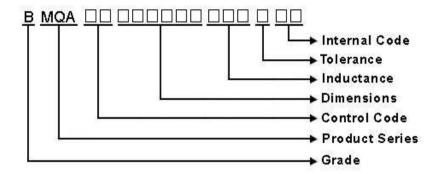
### SPECIFICATION FOR APPROVAL

Customer:					
Customer P/N:					
Drawing No :					
Quantity:	0	Pcs.	Date :	2020/03/24	
Chilisin P/N :		PMO.	ADY10104		
Cillisiii P/N		DIVIQ	AD 1 10 104	U4R/WAI	
	CDE(		ATION		
		SIFIC/ SEPTE	ATION D BY:		
COMPONENT					
ENGINEER					
ELECTRICAL					
ENGINEER					
MECHANICAL					
ENGINEER  APPROVED					
REJECTED					
奇力新電子股份有限公 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	•	Chili No. Qing TEL FAX	sin Electronics (I 78, Puxing Rd.,	3-0232	
奇力新電子(越南廠)有 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	etnam) Limited lo 10, VSIP Hai Phong, uy Nguyen Dist, n Fax : 84-316 255		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 李思穎 <b>sherry.lee</b>			Approved by 葉信賢 <b>Ben.Yeh</b>		



# **BMQADY101040 Series Specification**

- Scope: This specification applies to large current and low loss SMD shielding power inductor.
- 2 Part Numbering:

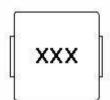


### 3 Rating:

Operating Temperature:  $-55\% \sim 125\%$  (Including self - temperature rise)

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

## 4 Marking:



Marking: XXX

Marking color: Black

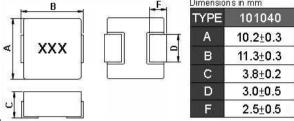
## 5 Standard Testing Condition

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



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### 6 Configuration and Dimensions:



### 7 Electrical Characteristics:

Part No.	Inductance (uH)	Tolerance (±%)	Test Freq.	Irms (A)Typ.	lsat (A)Typ.	RDC(mΩ) Max.(Typ)	Marking
BMQADY101040R22MD1	0.22	20	100kHz,0.5	40(42)	55(60)	0.54(0.45)	R22
BMQADY101040R33MD1	0.33	20	100kHz,0.5	32(35)	45(50)	0.68(0.62)	R33
BMQADY1010401R0MD1	1	20	100kHz,0.5V	23(25)	26(30)	2.4(2.2)	1R0
BMQADY1010402R2MD1	2.2	20	100kHz,0.5V	15(15.6)	17(20)	4.7(4.3)	2R2
BMQADY1010404R7MA1	4.7	20	100kHz,0.5V	10.5(11)	13(14)	10.5(9.5)	4R7

#### Note:

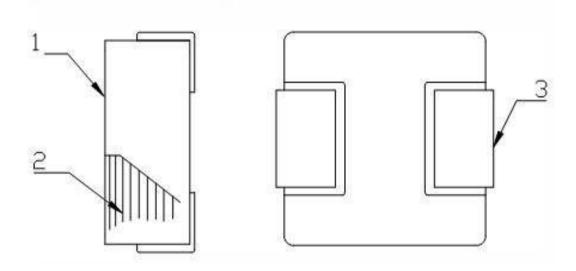
- 1. Operating temperature range -55°C ~125°C (Including self temperature rise)
- 2.Isat for Inductance drop 30% from its value without current.
- 3.Irms for a 40°C temperature rise from 25°C ambient.
- 4.The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions.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



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# 8 BMQADY101040 Series

### 8.1 Construction:



#### 8.2 Material List:

No	Part	Material
1	Core	Magnetic Metal Powder
2	Wire	Copper Wire
3	Terminal	Terminal Copper

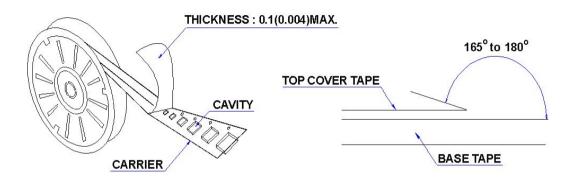


# **BMQADY101040 Series Specification**

# 9 Packaging:

### 9.1 Packaging -Cover Tape

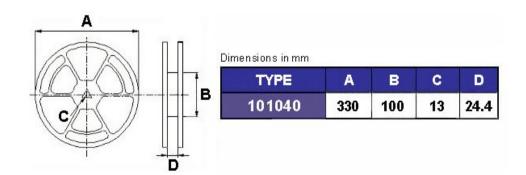
The force for tearing off cover tape is 10 to 130 grams in the arrow direction.



### 9.2 Packaging Quantity

TYPE	PCS/REEL
101040	500

#### 9.3 Reel Dimensions

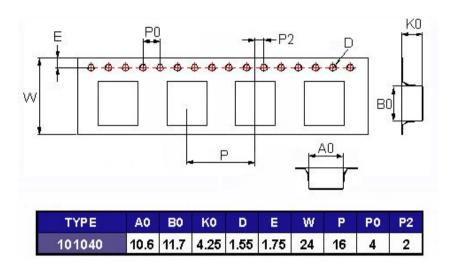




## **BMQADY101040 Series Specification**

# 9 Packaging:

#### 9.4 Tape Dimensions in mm



### 10 Recommended Land Pattern:



### 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: BMQADY1010404R7MA1

