Notice for TAIYO YUDEN products

Please read this notice before using the TAIYO YUDEN products.

REMINDERS

Product information in this catalog is as of October 2014. All of the contents specified herein are subject to change without notice due to technical improvements, etc. Therefore, please check for the latest information carefully before practical application or usage of the Products.

Please note that TAIYO YUDEN CO., LTD. shall not be responsible for any defects in products or equipment incorporating such products, which are caused under the conditions other than those specified in this catalog or individual specification.

Please contact TAIYO YUDEN CO., LTD. for further details of product specifications as the individual specification is available.

Please conduct validation and verification of products in actual condition of mounting and operating environment before commercial shipment of the equipment.

All electronic components or functional modules listed in this catalog are developed, designed and intended for use in general electronics equipment.(for AV, office automation, household, office supply, information service, telecommunications, (such as mobile phone or PC) etc.). Before incorporating the components or devices into any equipment in the field such as transportation,(automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network (telephone exchange, base station) etc. which may have direct influence to harm or injure a human body, please contact TAIYO YUDEN CO., LTD. for more detail in advance.

Do not incorporate the products into any equipment in fields such as aerospace, aviation, nuclear control, submarine system, military, etc. where higher safety and reliability are especially required.

In addition, even electronic components or functional modules that are used for the general electronic equipment, if the equipment or the electric circuit require high safety or reliability function or performances, a sufficient reliability evaluation check for safety shall be performed before commercial shipment and moreover, due consideration to install a protective circuit is strongly recommended at customer's design stage.

The contents of this catalog are applicable to the products which are purchased from our sales offices or distributors (so called "TAIYO YUDEN' s official sales channel").
It is only applicable to the products purchased from any of TAIYO YUDEN' a official sales channel

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Please note that TAIYO YUDEN CO., LTD. shall have no responsibility for any controversies or disputes that may occur in connection with a third party's intellectual property rights and other related rights arising from your usage of products in this catalog. TAIYO YUDEN CO., LTD. grants no license for such rights.

Caution for export

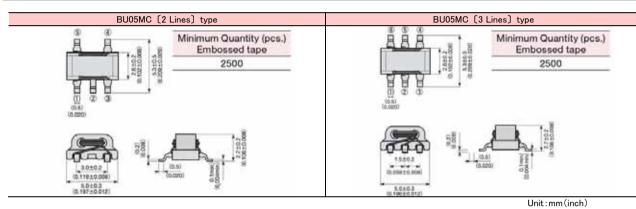
Certain items in this catalog may require specific procedures for export according to "Foreign Exchange and Foreign Trade Control Law" of Japan, "U.S. Export Administration Regulations", and other applicable regulations. Should you have any question or inquiry on this matter, please contact our sales staff.

TAIYO YUDEN 2015

SMD COMMON MODE CHOKE COILS FOR DC AND SIGNAL LINES

PARTS NUMBER		*Operating Temp	*Operating Temp. : $-25 \sim +105^{\circ}C$ (Including self-generated heat)		
BU0 1 2	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\Delta =$ Blank space			
①Series name		④Product classi	fication code		
Code	Series name	Code	Product classification code		
BU	Common mode choke coil	∆01~∆10	Product classification code		
②Dimensions of	core	⑤Packaging			
Code	Dimensions of core[mm]	Code	Packaging		
05	5.0	ΔΤ	Taping		
③Shape		©Internal code			
Code	Shape	Code	Internal code		
MC	Surface mount type	Δ	Standard		

STANDARD EXTERNAL DIMENSIONS / MINIMUM QUANTITY



The values without tolerance are for reference only.

PARTS NUMBER

BU05MC type								
Parts number	EHS	Number of lines	Impedance [Ω](typ.)	Measuring frequency [MHz]	DC Resistance [Ω](max.)	Rated current [A] (max.)	Rated voltage [V] (D.C.)	Insulation resistance [MΩ] (min.)
BU05MC 01 T	RoHS	2	1000	60	0.12	1.0	50	100
BU05MC 08 T	RoHS	3	700	60	0.11	0.5	50	100

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NOISE SUPPRESSION COMPONENTS \ COMMON MODE CHOKE COILS

REFLOW

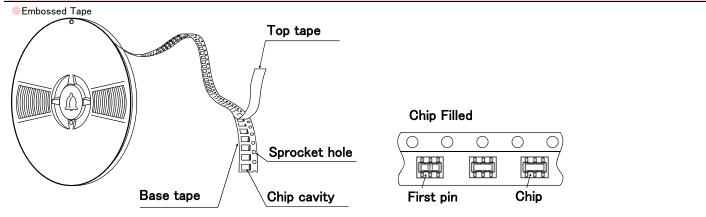
SMD COMMON MODE CHOKE COILS FOR DC AND SIGNAL LINES, BALUN TRANSFORMERS

PACKAGING

①Minimum Quantity

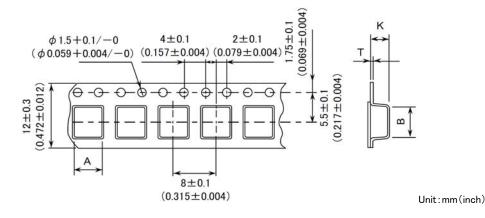
Туре	Minimum Quantity [pcs]		
туре	Box	Taping	
BU05MC	-	2500	
BU05MB	200	-	
BU06MB	150	—	

2 Tape material



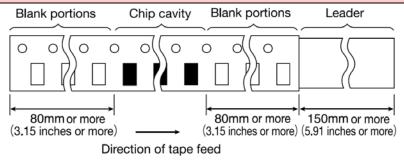
③Taping dimensions

Embossed tape 12mm wide (0.472 inches wide)

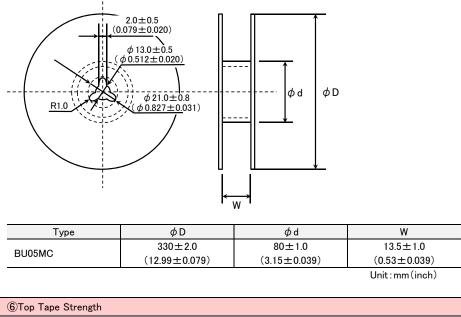


Turne	Insertion	Chip cavity		Tape thickness	
Туре	pitch	A	В	К	Т
BU05MC	8.0±0.1	5.2 ± 0.1	5.6 ± 0.1	3.2 ± 0.1	0.4 ± 0.05
BOODWC	(0.315 ± 0.004)	(0.205 ± 0.004)	(0.220 ± 0.004)	(0.126 ± 0.004)	(0.016 ± 0.002)
					Unit:mm(inch)

4Leader and Blank portion



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The top tape requires a peel-off force of 0.1 to 0.7N in the direction of the arrow as illustrated below. Pull direction Top tape Base tape

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SMD COMMON MODE CHOKE COILS FOR DC AND SIGNAL LINES, BALUN TRANSFORMERS

PRECAUTIONS

1. Circuit Design	
Precautions	 Operating environment The products described in this specification are intended for use in general electronic equipment, (office supply equipment, telecommunications systems, measuring equipment, and household equipment). They are not intended for use in mission-critical equipment or systems requiring special quality and high reliability (traffic systems, safety equipment, aerospace systems, nuclear control systems and medical equipment including life-support systems,) where product failure might result in loss of life, injury or damage. For such uses, contact TAIYO YUDEN Sales Department in advance.

2. PCB Design			
Precautions	♦Land pattern design Please contact any of our offices for a land pattern, and refer to a recommended land pattern of specifications. 		
Technical considerations	 Land pattern design Surface Mounting Mounting and soldering conditions should be checked beforehand. Applicable soldering process to these products is reflow soldering only. Recommended Land Patterns [BU05MC] Image: Solder in the sold of th		

3. Considerations for automatic placement		
Precautions	 Adjustment of mounting machine 1. Excessive impact load should not be imposed on the products when mounting onto the PC boards. 2. Mounting and soldering conditions should be checked beforehand. 	
Technical considerations	Adjustment of mounting machine When installing products, care should be taken not to apply distortion stress as it may deform the products. 	

4. Soldering	
	◆Reflow soldering
	1. Please contact any of our offices for a reflow soldering, and refer to the recommended condition specified.
	2. This product can be used reflow soldering only.
	3. Please do not add any stress to a product until it returns in normal temperature after reflow soldering.
	◆Lead free soldering
Precautions	1. When using products with lead free soldering, we request to use them after confirming adhesion, temperature of resistance to soldering heat, soldering etc sufficiently.
	◆Recommended conditions for using a soldering iron
	[BU05MC]
	 Put the soldering iron on the land-pattern.
	 Soldering iron's temperature - Below 350°C
	Duration – 3 seconds or less
	 The soldering iron should not directly touch the inductor.
	♦ Reflow soldering
	1. If products are used beyond the range of the recommended conditions, heat stresses may deform the products, and consequently
Technical considerations	degrade the reliability of the products.
	◆Recommended conditions for using a soldering iron
	If products are used beyond the range of the recommended conditions, heat stresses may deform the products, and consequently degrade
	the reliability of the products.

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P	recautions	 ♦ Cleaning conditions 1. Please contact any of our offices for a cleaning.

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