Part Drawing & Specification

M-EN-DE0177

Rev:

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Manufacturring By.

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SPECIFICATION

<u>Customer.-</u> **Electronics Source**

Customer P/No.- Choke Coil 20uH

MIND. P/No.- CCR4ADR810S200



MAGNETIC INDUCTION CO.,LTD. ENGINEERING DEPARTMENT.(MIND-ENG'G)

ORIGINATOR BY	CHECK BY	APPROVE BY
.70	Or	Jan
9/10/2018	9/10/2018	9/10/2018

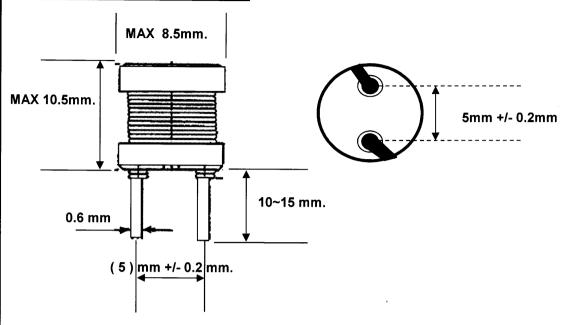
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1. Appearance and Diamensions.



** 1. (). Is referance only

In transportation can be allow to be bend and shift the lead wire.

** 2. Winding direction it not require.





2. Process Construction

2.1 Winding specification

NO.	COIL	TERM.No.	TURNS	MAGNET WIRE	LAYER
1	N1	1-2	25.5(Ref)	2UEW Ø0.40	-

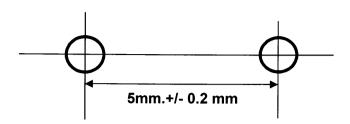
2.2 Winding Layout



Winding Start

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2.3 Pin Diamention

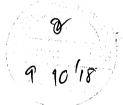


** (). Is referance only

3. Material List

No.	Part Name	Material, Diamension	Manufacture
1	Ferrite core	DR8*10	Fengyin Company Or Equivalance other maker
2	Magnet wire	Polyurethane enameled copper wire 2UEW Ø0.40	Siam Electric Enamal Co.,Ltd (E94303) Thai Hitachi Enamal Co.,Ltd (E137472) Siam Pacific Electric wire (E94303)
3	Solder	Lead (Pb) Free	Ultra core Co.,Ltd Or Optinal

The Late of the Control of the Contr



4. Inspection requirements

4.1 Electriccal Requirement

No.	ltem	Spec	Condition & Method
1	Operating Temperature	-20 Ć To + 120Ć	Include Temperature rise of coil
2	Inductance	20 uH +/-10%	Freq. 10KHz ,Osc 1V Hioki 3522
3	DC Resistance	Max 2.8 Ω	Micro Ohm Meter @25C or equivalent
4	Rated Voltage	VAC 250 V 50/60 Hz	
5	Rated Current	400mA	

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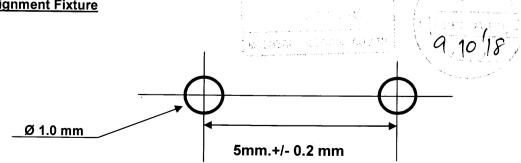
4.2 Characterics

	ability ication: 3smax to soldered ing shall be min 95%	Dip pin to flu	Condition & Meth			
<u>Specifi</u>	ication : 3smax to soldered	That Caldan	Dip pin to flux specified JIS C 0050 for 5 to 10 Sec. After			
		That. Solder pins by solder bath for 2+/- 0.5 Sec				
	ing shall be mill 90%	Heated 230	+/- 5 C	3 360		
	ance to soldering		x specified JIS C 0050 for 5 to	10 Sec. After		
]			by solder bath for 10+/- 0.5 S			
		Heated 270		•		
3 Vibratio	0n	10 55 1011				
Vibratio	OII	10 ~55~10H	 -			
<u> </u>		Sweep time				
		1	de : 1 min.of vibration	•		
4 Cold R	:-	X,Y,Z each e				
4 Cold R	esistance	Stored at -37C to -43C for 96h				
5 Heat R	locioto	Measured after 1 to 2 at normal condition				
) near R	esistance	Teperature: 98C~102C Time 96 h.				
6 Therma	al shock		ter 1 to 2 at normal condition			
o memia	ai Silock	Stored at the following environmental cycle with 20 cycles.				
		Step	Temperature(C)	Time(Min)		
		1	-25+/-3	30		
		2	Standard	2~3		
		3	85+/-2	30		
		4	Standard	2~3		
7 Therma	al test	Stored at -25	C~85C. Measure inductance	And compact with		
_	cation : Lo +80%/-60%	initial value o		And compaet with		
	re Resitance	Stored at 58C~62C, 90% to 95% for 96h Measure after 1 to 2h				
		lat normal condition				

4.3 Visual and Phycal check

Item	Criteria	level	Method
Soldering	The hight of soldering area do not excess the base of the terminal	100% Check	Visual observation
Marking	All letters shall be legible	100% Check	Visual observation
Dimension	Each dimension do not excess specification	N =10 pcs	Caliper

4.3 Pin Alignment Fixture



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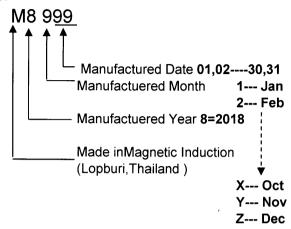
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5. Marking

When shipment to customer must be stick Label or Stamp on the product follow this.-

5.1 Marking Lot No.



REMARK:

6.Packing Spec

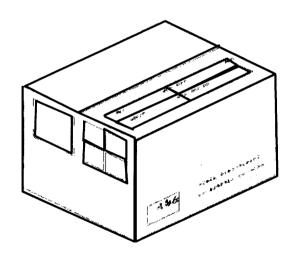
6.1 Parts of Packing

A. Inner Box



B. Marter Box





6.2 Mass

- Product mass

: Approx 9.2 g/pcs

-Total mass

: Approx 11.4 g/pcs

6.3 Packing method

1. Use Plastic Bag

100 Pcs/ Bag

2. Use the master box

5,000 Pcs/box

3. Incase of the odd QTY.put some emtry package case into the master box.

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6.4 Labeling	<u>Example</u>					
1. Customer :	ES					
2. Customer Part No. :	Choke coil 20uH					
3. MIND. Part No. :	CCR4ADR810S200					
4. Quantity :	5000 pcs/box ,Total 2	5,000 Pcs.				
5. No. of Package :	1 of 5 box	•				
6. Lot No.	M8X09					
7. Date	9/10/2018					

Remark

- 1 Prior to delivery of products including unspecified item under approval spec. sheet, supplier shall submit new spec .Sheet to customer's engineering and approval.
- When change materials, manufacturing method, construction and etc., submit application from of change approval to the purchasing, and receive agreement for changing by customer'engineer and approval.
- 3 Supplier should be solved with own responsibility about problem of industrial property
 ** Regulation on the application of ozone depleting compond
 Regulation chemical: CFCS, Halon, Carbon tetracholoride, 1.1.1 Trichloroethane
 (Methylchloroform)
 - a). This product, or assembled unit/component does not contain.
 - b). The above compound is not used in the manufacturing process for this product or assembled unit or component.
- 4 All the material used in this part do not contain or aplly heavy metaic Mercury, Lead, Cadmium, Chromium Trioxide, Comply with the present RoHS and WEEE requirement
- 5 Please don't use it for other purposes. Also, please don't duplicate the specification, nor open the contents of it third parties without permission of Magnetic Induction Co., Ltd.





!!Caution for safety

This sepcification regulates the quality of the product as a single unit. Prior to the use, the product must be evaluated for assuarance of safety when it is monthed on your product.

We have been marking continuous efforts to enhance the quality and reliability of our product. To prevent accident resulting injury or daeth, damage to social prorerty and fire accident arising from a defect in our product, you are requested to incorporate thorugh safety measures in it design, such as redundacy, fire-containment and anti-malunction measures. If there are any questions on items not mentioned hear, please consult office.