CUSTOMER APPROVAL SHEET

CUSTOMER：

CUSTOMER P/N：

DESCRIPTION：

OUR ITEM：　RHB Series

QUANTITY：　PCS

DATE：　2017/08/23

SPECIFICATION

	“ ✓ “	CUSTOMER'S SIGNATURE	NOTE
FULL APPROVAL			
CONDITIONAL APPROVED			
REJECTED			

DRAWN BY	CHECKED BY	APPROVED BY
郭育銓 Nady	翁美傑 Elsa	陳英信 Chris

Head office

聯磁企業股份有限公司
EROCORE Enterprise Co Ltd
(235) 16F., No.700, Jhongjheng Rd., Jhonghe City, Taipei Country, Taiwan(R.O.C.)
Tel: 886-2-82278908
Fax: 886-2-82278907
Web site: www.core.com.tw

Revision History

PART NO：

REV. No	Revised Date	Reason and Detail of Revision	Prepared	Checked	Approved
1.0	2017/8/23	第一版發行	Nady	Mei	Chirs

Bead Core RHB Coil / RH Series

.Features

1. These filters suppress voltage & current spikes within the circuits and provide protection to semiconductor devices.
2. These filters can be mounted directly onto the leads of components utilizing no additional space.
3. When these products are placed in series with diodes, they more effectively suppress transient current changes which cause noise than other methods.
4. Best designed and tested to offer perfect space utilization and accurate impedance.

.Applications

Prevention of high frequency EMI from Video and acoustic communication units as well as other electronic devices.

.Product Identification

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1 2 3 4

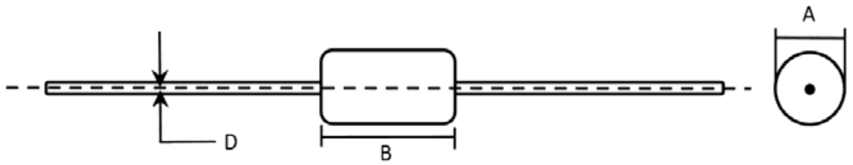
Series name	Dimensions (LxW)		Packing Style
RH	035030	3.5x3.0m	S : Single
			T: Tape and Reel
			:

Material	
A8	800ui
A12	1200ui

.Rating

1. Operating temperature : -40℃ ~ +125℃
2. Storage temperature : -40℃ ~ +85℃

.Shape and Dimension



Dimensions & Electrical Characteristics

Part No.	Dimensions			Impedance (Ω) Min.	
	ΦA	B	ΦD	25 MHz	100 MHz
RH035030ST	3.5 ± 0.2	3.0 ± 0.3	0.65 ± 0.05	20	40
RH035045ST	3.5 ± 0.2	4.5 ± 0.3	0.65 ± 0.05	25	45
RH035047ST	3.5 ± 0.2	4.7 ± 0.3	0.65 ± 0.05	-	60
RH035050ST	3.5 ± 0.2	5.0 ± 0.3	0.65 ± 0.05	40	60
RH035060ST	3.5 ± 0.2	6.0 ± 0.3	0.65 ± 0.05	-	50
RH035075ST	3.5 ± 0.2	7.5 ± 0.3	0.65 ± 0.10	-	70
RH035080ST	3.5 ± 0.2	8.0 ± 0.3	0.65 ± 0.05	-	70
RH035090ST	3.5 ± 0.2	9.0 ± 0.3	0.65 ± 0.05	50	80
RH035100ST	3.5 ± 0.2	10.0 ± 0.3	0.65 ± 0.05	-	100

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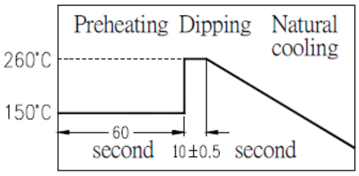
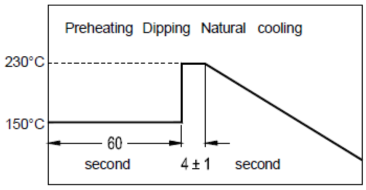
Bead Core RHB Coil / RH Series

Reliability and Test Conditions(可靠性測試條件)

<table>
<tr><th>Item</th><th>Performance</th><th>Test Condition</th></tr>
<tr><td>Temperature Rise Test</td><td>40℃ Max.(Δt)</td><td>1. Applied the allowed DC current.
2. Temperature measured by digital surface thermometer.</td></tr>
<tr><td>Overload test</td><td>1. During the test no smoke,no peculiar , smell,no fire
2. The characterstic is normal after test.</td><td>Apply twice as rated current for 5minutes.</td></tr>
<tr><td>Solder heat resistance</td><td>1. No case deformation or change in appearance.
2. △L/L ≦10%
3. △Q/Q ≦30%
4. △DCR/DCR ≦10%
5. △Z/Z ≦10%</td><td>Preheat:150℃,60secs
Solder : Sn(96)/Ag(4)
Solder tamperature:260±5℃
Flux: rosin
DIP time:10±0.5secs
 </td></tr>
<tr><td>Terminal strength</td><td>The terminal electrode and the dielectric must not be damaged by the forces applied on the right conditions.</td><td>1. Pull Force:0.45kg,the force shall be applied gradally to the terminal and then maintained for 10 seconds.
2. Wire-lead bend 0.23kg,the rate of bending shall be approximately 3Seconds per bend in ea ch direction. The load shall be suspended at a point within 1/4 inch from the free end of the terminal.</td></tr>
<tr><td>Solderability</td><td>More than 95% of the terminal electrode should be covered with solder.</td><td>Preheat:150℃,60secs
Solder : Sn(96)/Ag(4)
Solder tamperature:245±5℃
Flux: rosin
DIP time:10±0.5secs
 </td></tr>
<tr><td>Vibration test</td><td rowspan="4">1. No case deformation or change in appearance.
2. △L/L ≦10%
3. △Q/Q ≦30%
4. △DCR/DCR ≦10%
5. △Z/Z ≦10%</td><td>Apply frequency 10~55Hz,0.75mm amplitude in each of perpendicular direction for 2hours (total 6 hours)</td></tr>
<tr><td>High Temperature Life Test</td><td>Temperature:85±5℃
Time:500±12hrs
Recovery: 4 to 24hrs of recovery under the standard condition after the removal from test chamber.</td></tr>
<tr><td>Low Temperature Life Test</td><td>Temperature:-40±5℃
Time:500±12hrs
Recovery: 4 to 24hrs of recovery under the standard condition after the removal from test chamber.</td></tr>
<tr><td>Thermal Shock</td><td>Conditions of 1 cycle<table>
<tr><th>Step</th><th>Temperature(℃)</th><th>Times(min.)</th></tr>
<tr><td>1</td><td>-40±3</td><td>30±3</td></tr>
<tr><td>2</td><td>Room Temperature</td><td>Within 3</td></tr>
<tr><td>3</td><td>125±3</td><td>30±3</td></tr>
<tr><td>4</td><td>Room Temperature</td><td>Within 3</td></tr>
</table>Total:20 cycle
Recovery: 4 to 24hrs of recovery under the standard condition after the removal from test chamber.</td></tr>
</table>

Item	Performance	Test Condition
Humidity Resistance	1. No case deformation or change in appearance. 2. △L/L ≦10% 3. △Q/Q ≦30% 4. △DCR/DCR ≦10% 5. △Z/Z ≦10%	Temperature:40±5℃ Humidity:90 to 95% Applied current:Rated current Time:500±12hrs Recovery:4 to 24hrs of recovery under the standard condition after the removal from test chamber.
Voltage resistance test	1. During the test no breakdown 2. The characteristic is normal after test	Refer to produc'ts specification.
Electronic characteristic test of major products	Refer to catalogue of specific products.	Refer to catalogue of specific products.
Drop test	1. No case deformation or change in appearance. 2. △L/L ≦10% 3. △Q/Q ≦30% 4. △DCR/DCR ≦10% 5. △Z/Z ≦10%	Packaged & Drop down form 1M with 981m/s2(100G) Attitude In 1angle 1 ridges & 2 surfaces orientations.
Resistance to solvent Test	1. No case deformation or change in appearance,or obliteration of marking.	To dip parts into IPA solvent for 5+0.5min,then drying them at room temp for 5min,at last,to brushing marking 10 times.