

## 后芮驷(上海)电子有限公司

## Horus International Electronics Co., LTD.

# 承认书

## SPECIFICATION FOR APPROVAL

品名	DESCRIPTION:	SMD Type Common Mode Choke Coil
规格	SPEC :	HRS-RCA-C7060-701M
包装	PACKAGE:	卷装
客户	CUSTOMER:	

客户料号 CUSTOMER P/N:

APPROVED BY	
	王海田大田
CUSTOMER	HORUS

编号:





## SMD Type Common Mode Choke Coil P/N: RCA- C7060-701M

Moisture Sensitivity Level: 1

RoHS compliance.

Halogen Free available.

Qualification to AEC-Q200.

\*Content in this sheet are subject to change without prior notice



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$$\begin{array}{c|c} RCA \\ A \\ B \\ \end{array} - \begin{array}{c} C7060 \\ C \\ \end{array} - \begin{array}{c} 701 \\ C \\ \end{array}$$

- A: Series (RCA: For Automotive Electronics)
- B: Dimension A x B
- C: Impedance min  $701=700\Omega$  (500 $\Omega$ Min)
- D: M = Min

#### **3. ELECTRICAL CHARACTERISTICS:**

4.1 測試條件(Test conditions):25°C,65%RH@ 100MHz/0.1V 阻抗(Impedance):Z(1-4/2-3)=700Ω TYP (500Min) 額定電壓(Rated Voltage)= 125V Max 額定電流(Rated Current):= 4.0A Max 直流電阻(DCR)(1-2/3-4):= 15mΩ Max

4.2 測試儀器(Test instruments): Z:CH1310/CH3252



#### Note:

Operating temperature : -40 to +125°C

Typical Heat Rating DC Current would cause an approximately  $\ riangle T$  of 40°C

If Use Wave soldering is there will be some risk. Re-flow soldering temperatures below 240

Degrees, there will be unwitting risk

Solder standard according to IPC-A-610D 8.2.1 Chip Components - Bottom Only Terminations



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## 4. Reliabllity and Test Condition

ltem	Performance	Test Condition
Operating Temperature	-40 ~125 ℃ (Including self-temperature rise)	
Electrical Perfo	rmance Test	
Inductance L	-	Agilent-4291, Agilent-4287 Agilent-4192, Agilent-4285
Q	Refer to standard electrical characteristic list	
SRF		Agilent-4291
DC Resistance		Agilent-4338
Rated Current	Base on temp. rise & $\triangle L/L0A \leq 30\%$ .	Saturation DC Current (Isat) will cause L0 to drop approximately $\triangle$ L(%).
Temperature Rise Test	ΔT 40 Max	Heat Rated Current (Irms) Willcausethecoil temperature rise approximately △T(°C) without core loss. 1.Applied the allowed DC current. 2.Temperature measured by digitalsurfacethermometer
Mechanical Per	formance Test	
Resistance to Soldering Heat MIL-STD-202 METHOD 210	<ol> <li>Inductors shall be no evidence of electrical and mechanical damage.</li> <li>Inductance : within ±10% of initial value</li> </ol>	Temp.: 260±5℃ Time: 10±1.0 Sec
Solderability Test ANSI/J-STD-002	More than 95% of terminal electrode should be covered with solder.	After fluxing,component shall be dipped in a melted solder bath at 235±5°C for 4±1 seconds.

No.	Item	Terminal to be Tested
1	Impedance ( Z )	
	(Measurement Terminal)	Terminal→o
2	DC Resistance (Rdc)	i mi
	(Measurement Terminal)	
3	Insulation Resistance (I.R.)	
	(Measurement Terminal)	
4	Withstanding Voltage	Terminak→oOOOo
	(Measurement Terminal)	
5	Humidity Load (Supply Terminal)	
6	Heat Life (Supply Terminal)	



#### 5.Soldering and Mounting

1. Soldering

Mildly activated rosin fluxes are preferred.terminations are suitable for all wave and reflow soldering systems. If hand soldering cannot be avoided, the preferred technique is the utilization of hot air soldering tools.

1.1 Solder re-flow:

Recommended temperature profiles for re-flow soldering in Figure 1.

#### 1.2 Soldering Iron(Figure 2):

Products attachment with a soldering iron is discouraged due to the inherent process control limitations. In the event that a soldering iron must be employed the following precautions are recommended.





### Recommended PC Board Pattern





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### 6.Packaging Information

### Packaging Quantity: 1500 pcs/Reel Reel Dimension:

#### **Tearing Off Force**



The force for tearing off cover tape is 15 to 80 grams in the arrow direction under the following conditions.

Room Temp.	Room Humidity	Room atm	Tearing Speed
(°C)	(%)	(hPa)	mm/min
5~35	45~85	860~1060	300

#### Storage Conditions

To maintain the solderability of terminal electrodes:

- 1. products meet IPC/JEDEC J-STD-020D standard-MSL, level 1.
- 2. Temperature and humidity conditions: Less than 40  $^\circ\!\!\mathbb{C}$   $\,$  and 60% RH.
- 3. Recommended products should be used within 12 months form the time of delivery.
- 4. The packaging material should be kept where no chlorine or sulfur exists in the air.
- Transportation
  - 1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
  - 2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
  - 3. Bulk handling should ensure that abrasion and mechanical shock are minimized.

Modify records				
Version	Page	Description		
V01	N/A	New issued		