P/N: WTL6R20897

Ceramic Resonator ZTB DIP Type



1. SCOPE

This specification is applied to the ceramics resonator used for communication.

. (本规格书适用于通讯用陶瓷谐振器。)

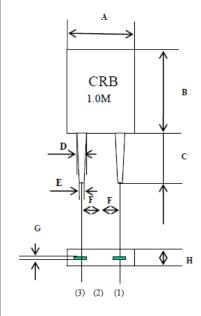
2. MODEL NAME

(产品名称)

Part Name	Customer's Part Number	Drawing No.
(型号)	(客户型号)	(图号)
CRB1.0M		GG-010

3. DIMENSIONS

(尺寸)



UNIT : MM

A	5.1±0.3
В	6.3 ± 0.3
С	4.5±0.5
D	0.9 ± 0.1
E	0.7 ± 0.1
F	1.25±0.2
G	0.15±0.03
Н	2.3±0.3

- (1). INPUT
- (2). GROUND
- (3). OUTPUT

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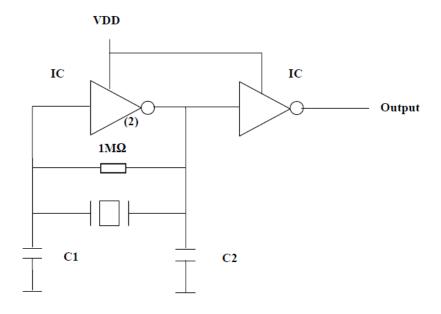


4. TEST CIRCUIT

(测试电路)

any necessity to measure under a standard condition (Temp.:20 \pm 2°C. Humid.:65 \pm 5%) is occurred.

(测量条件为温度 3-35℃,相对湿度 45~85%,必要时标准测量条件为温度 20 $\underline{+}$ 2℃,相对湿度 65 $\underline{+}$ 5%)



C1=C2=100PF

IC= 1/6CD4069UBE

VDD=+5V



5. ELECTRICAL CHARACTERISTICS

(电气性能)

	Item	Requirements
	(项目)	(要求)
5-1	Center Frequency (fo) (中心频率)	1000KHZ
5-2	Frequency Accuracy (频率精度)	Fc±0.5%KHZ
5-3	Resonator Impedance (谐振阻抗)	100 'Q max
	(省採阻仇)	100 Ω max
5-4	Operating Temperature Range (使用温度)	-40 TO +80 °C
5-5	Storage Temperature Range (储存温度)	-30 TO +85 °C
5-6	Withstanding Voltage (耐电压)	DC 100
5-8	Temperature Coefficient Of Center Frequency	+0.3% max
	(-20~+80℃)	



6. PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS (物理及环境特性)

	Test Item (试验项目)	Condition of Test (试验条件)	Requirements (要求)
6-1	(引脚强度) Lead Pulling (引脚拉力)	Applied to vertical weight 1Kg along with the direction of lead without any shock for 5-10sec. (沿引线方向加10牛顿静载荷5-10秒.) Filter lead shall be subjected to withstand against 90° bending its stem. This operatio shall be done toward both direction. (引脚折弯90°,反方向同样。)	
6-2	Solderability (可焊性)	Dip the terminals of the filter no closer than 1.5mm into a soldering bath(230±5℃) for 5±1 sec . (refer to MIL-STD-202E-208C) 端子至少1.5mm 应浸没在(230±5℃)锡池内5±1 秒。)(be for coat at least 95% of the terminal surface
6-3	Vibration (振动)	Filter shall be measured after being applied vibration as below (在下面条件下振动后测试) Vibration Freq: 10-55HZ (振动频率) Amplitude : 1.5 mm (幅度) Directions : 3 axial directions (方向) (3 轴向) Time : 1 hour/each direction (时间) (1 小时/各方向)	No visible damage and the measured value shall meet table 1 (无可见损伤且测量值 满足表1)
6-4	_	Filter shall be measured after 3 times random dropping from the height of 76cm. concrete floor. (3次76cm高度跌落到水泥地板后测试)	
6-5		Filter immersing the terminals up to 1.5 mm to filter's body in soldering bath (350 ±10℃) for 3 sec., filter shall be measure after being placed in natural condition for 1 hour. (端子在(350±10℃)锡池内浸没到器件根部1.5mm,,时间3秒,自然条件放置1小时后测试。)	The measured value shall meet table 1. (测量值满足表 1)



6. PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS (续上页) (物理及环境特性)

	Test Item	Condition of Test	Requirements
	(试验项目)	(试验条件)	(要求)
6-7	Humidity (湿度)	After being placed in a chamber (Humic, :90-95% RH Temp.:40 ± 2℃) for 100 hours filter shall be measured after placed in natural condition for 1 hour (相对湿度 90-95% 温度 40 ± 2℃容器中放置 100 小时, 自然条件放置 1 小时后测试。)	
6-8	Life Test (High temperature) (寿命试验) (高温)	After being placed in a chamber 85±2℃ for 100 hours ,filter shall be measured after being placed in natural condition for 1 hour. (温度 85± 2℃容器中放置 100 小时,自然条件放置 1 小时后测试。)	
6-9	Life Test (Low temperature) (寿命试验) (低温)	Placed in a chamber (Temp:-55± 2℃) for 100 hours, filter shall be measured placed in natural condition for 1 hour . (温度-55±2℃容器中放置 100 小时,自然条件放置 1 小时后测试。)	The measured value shall meet Table 1.
56-10	Thermal Shock (温度冲击)	After temperature cycling of -55℃(30 minutes) to +85℃(30 minutes) was performed 5 times with a transfer time15 min filter shall be measured after being placed in natural condition for 1 hour. (温度-55℃(30分钟)至+85℃(30分钟)循环5次,15分钟1次,自然条件放置1小时后测试。)	



 PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS (续上页) (物理及环境特性)

> Table 1 (表 1)

Item (項目)	Limit Value (极限值)
※ Center Frequency (中心頻率)	<u>+</u> 1.0 kHz max

※ Note: The limits in the above table are referenced to the initial Measurements. (表中的限值参照初始测量值)

7. NOTICE

(注意)

- 7.1 Ceramic filter should be stored in storeroom .And the surrounding atmosphere is acidness, alkali-free and no other harmful impurity. (器件应贮藏在贮藏室,周围环境无酸、碱性腐蚀或其它有害气体.)
- 7.2 The package for ceramic filter should be avoid the hit by rain and Snow, also the mechanical damage.

(包装应避免风雪、雨水的侵袭以及机械伤害。)

7.3 This specification limits the quality of the component as a single unit .Please make sure that the component is evaluated and confirmed the drawing When it is mounted to your product.

(本规格书只规定了部件本身的质量。应用于您的产品时。请确认图纸该部件是否等效.)