P/N: WTL6R22559
Ceramic Resonator ZTB Type

RoHS

Customer	WTL
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SPECIFICATION

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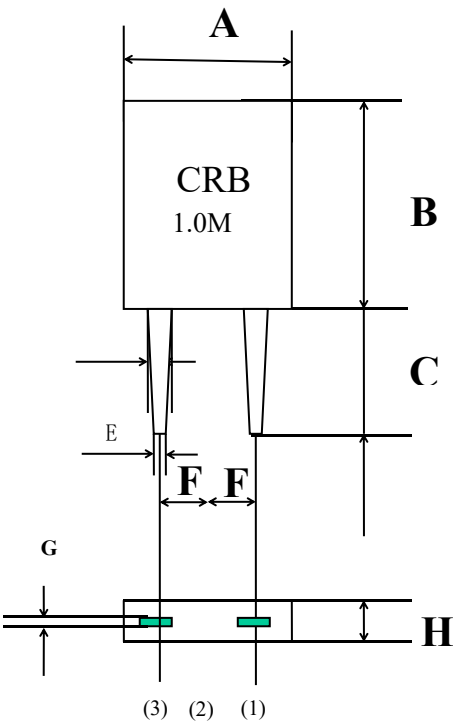
1. SCOPE

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

2. MODEL NAME : WTL6R22559

3. DIMENSIONS



UNIT : MM

A	5.1±0.3
B	6.3±0.3
C	4.5±0.5
D	0.9±0.1
E	0.7±0.1
F	1.25±0.2
G	0.15±0.03
H	2.3±0. 3

(1). INPUT

(2). GROUND

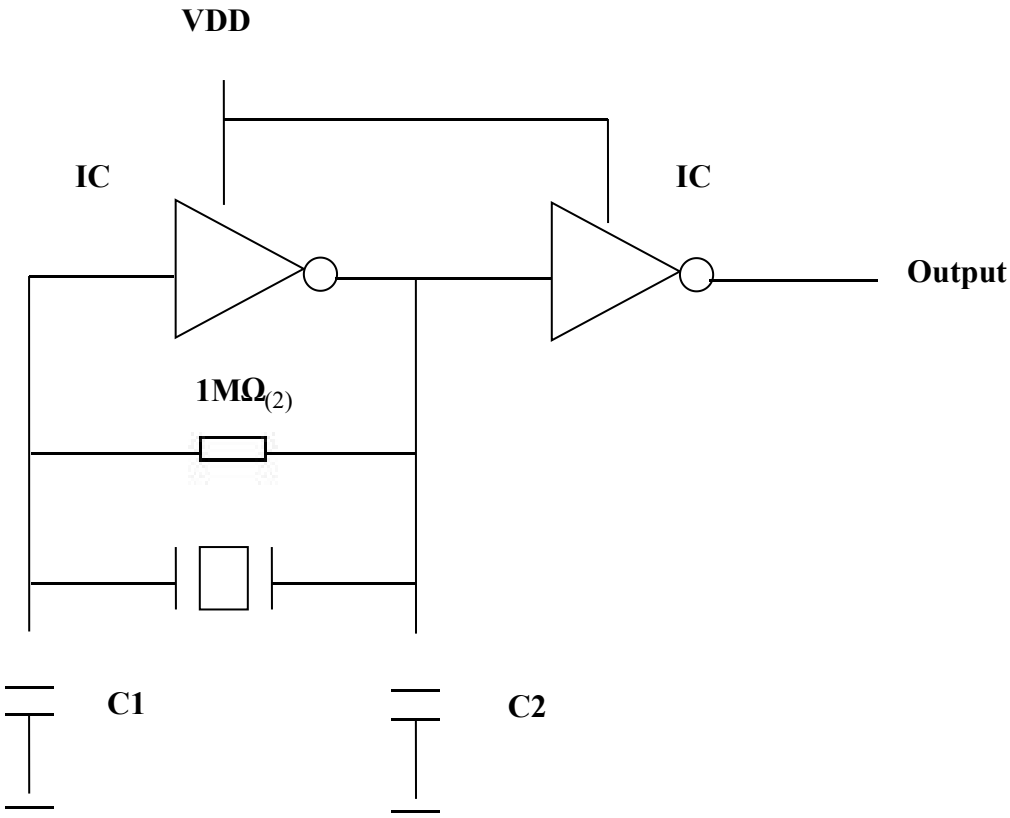
(3). OUTPUT

4.ELECTRICAL CHARACTERISTICS

Item	Requirements	
4-1	Center Frequency(fo)	1000KHz
4-2	Frequency Accuracy	Fc±0.5%KHZ
4-3	Resonator Impedance	100Ω max
4-4	Operating Temperature Range	-20 TO +80 ° C
4-5	Storage Temperature Range	-30 TO +85 ° C
4-6	Withstanding Voltage	DC 100
4-7	Temperature Coefficient Of Center Frequency (-20~+80℃)	±0.3% max
4-8	Insulation Impedance	100 MΩ min
4-9	Shunt Capacitance	85± 20 PF

5. TEST CIRCUIT

Parts shall be measured under a condition (Temp.:3~35℃. Hum.:45~85%) unless any necessity to measure under a standard condition (Temp.:20 ± 2 ℃. Humid.:65 ± 5%) is occurred.



C1=C2=100PF

IC= 1/6CD4069UBE

VDD=+5V

6. PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS

	Test Item	Condition of Test	Requirements
6-1	Lead Strength Lead Pulling Lead Bending	Applied to vertical weight 1Kg along with the direction of lead without any shock for 5-10sec. Filter lead shall be subjected to withstand against 90 ° bending its stem.This operation shall be done toward both direction.	No mechanical damage and the measured values shall meet Item 5.
6-2	Solderability	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)	The solder shall be for coat at least 95% of the terminal surface
6-3	Vibration	Filter shall be measured after being applied vibration as below Vibration Freq: 10-55HZ Amplitude : 1.5 mm Directions : 3 axial directions Time : 1 hour/each direction	No visible damage and the measured value shall meet table 1
6-4	Random Drop	Filter shall be measured after 3 times random dropping from the height of 76 c m.concrete floor.	
6-5	Resistance to Soldering Heat	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.	The measured value shall meet table 1.
6-6	Humidity	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	
6-7	Life Test (High temperature)	After being placed in a chamber 85+2℃ for 100 hours ,filter shall be measured after being placed in natural condition for 1 hour.	

6-8	Life Test (Low temperature)	Placed in a chamber (Temp:-55+ 2 ℃) for 100 hours,filter shall be measured placed in natural condition for 1 hour .	The measured value shall meet Table 1.
6-9	Thermal Shock	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.	

7. PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS

Table

Item	Limit Value
Center Frequency	± 1.0 kHz max

※ Note: The limits in the above table are referenced to the initial Measurements.

8. NOTICE

8.1Ceramic filter should be stored in storeroom .And the surrounding atmosphere is acidness,alkali-free and no other harmful impurity.

8.2 The package for ceramic filter should be avoid the hit by rain and Snow,also the mechanical damage.

8.3 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.