SHOULDER

ZTTCV...MT SMD Ceramic Resonator

DESCRIPTION

The ceramic resonator SMD with wide frequency range, optional internal load capacitance and compact design is designed for use in computers and peripherals and consumer products.

ELECTRICAL SPECIFICATION

Oscillate Frequency		13.01 to 50.00MHz
Frequency Tolerance (at 25°C)		±0.5% Maximum
Operating Temperature Range		-20°C to +80°C
Storage Temperature Range		-55°C to +85°C
Resonant Impedance Frequency		40Ω Maximum
Insulate Resistance		100MΩ minimum
Built - in Capacitance (pF)		Refer to test circuit
Withstanding Voltage D.C		100V (max. 5 seconds)
Temperature Stability		±0.3% Maximum
Valtaga	D.C. Voltage	6V Maximum
vollage	Input Voltage	15Vpp Maximum
Aging (at 25°C)		±0.3%

PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS

	Conditions	Results
1.	. Humidity	
	Keep the resonator at $40\pm2^{\circ}$ C and 90 ~ 95% RH for 96 ±4 h resonator into the room conditions for 1 hour prior to the shall fulfill the specifications in Table 1.	our.Then release the measurement. It

2. Solder Test

Passed through the re-flow oven under the following condition and left at room temperature for 1 hour before measurement. It shall fulfill the specifications in Table 1.

 Temperature at surface of the substrate 	Time
• Preheat 150±5°C	60±10 sec.
• Peak 240±5°C	10±3 sec.

3. Temperature cycling

Subject the resonator to -20°C for 30 minutes followed by a high temperature of +85°C for 30 minutes. Cycling shall be repeated 5 times with a transfer time of 15 second at the room conditions for 1 hour prior to the measurement. It shall fulfill the specifications in Table 1.

4. Mechanical Shock

Drop the resonator randomly onto a concrete floor from the height of 100cm 3 times. The device shall fulfill the initial electrical characteristics. It shall fulfill the specifications in Table 1.

5. Vibration

Subject the resonator to vibration for 2 hour each in x, y and z axis with the amplitude of 1.5mm. The frequency shall be varied uniformly between the limits of 10 -55Hz. It shall fulfill the specifications in Table 1.

Table 1



MECHANICAL DIMENSIONS (all in mm)



Lead

SOLDERING



TAPE SPECIFICATIONS (all in mm) - Carrier Tape Dimensions



PART NUMBERING SYSTEM (Example)

Av. Eliza Rosa Colla Padoan, 45 - CETIS - Módulo 3 -CEP: 85503-380 - Bairro Fraron - Pato Branco-PR - Tel: (55) (46) 3225-2446 www.relm.com.br/componentes www.hdshoulder.com.br relm@relm.com.br