

Crystal Resonator



RoHS
Compliant

Specifications:

General

Oscillation Mode	: AT, Fundamental
Nominal Frequency	: 26 MHz
Load Capacitance	: 18pF
Storage Temperature	: -40°C to +85°C
Operable Temperature	: -20°C to +70°C

Electrical Performances

Frequency Stability	: ± 30 ppm at 25°C ± 3 °C
Temperature Characteristics	: ± 30 ppm from -20°C to +70°C
Series Resistance	: 40 Ω max.
Load Resistance	: NA
Supply Current	: 100mA max.
Shunt Capacitance	: 5pF max.
Drive Level Nominal	: 100uW
Insulation Resistance	: 500M Ω at DC 100V
Aging	: ± 3 ppm / year

Physical and Environmental Parameters:

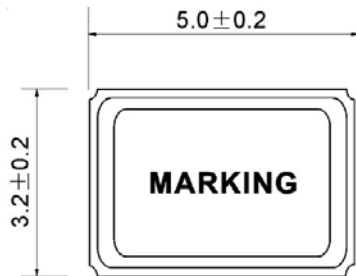
Description	Contents	Requirements
Vibration	10Hz to 55Hz, 0.75mm amplitude, in 3 directions duration of 30 minutes.	No mechanical damage and the measured values shall meet electrical parameters.
Random Dropping	The crystal will be test by natural dropping to 30mm wooden board 3 times from high of 30cm.	
Solder Ability	Dipped the terminals no closer than 2mm into the solder bath at 240 ± 5 °C for 3 ± 0.5 sec.	At least 95% of the terminal surface shall be coated by the solder
Resistance Solder Heat	Dipped the terminals up to 2 mm into the solder bath (260 ± 5 °C) for 5 sec., placed in a natural condition for 2 hours.	Measured values shall meet electrical parameters.
Thermal Shock	Temperature cycling from -40°C (30mins) to +85°C (30mins) was performed 3 times, then placed in a natural condition for 2 hours.	
Life Test (High Temperature)	Placed in a chamber (85 ± 2 °C) for 48 hours, then placed in a natural condition for 2 hours.	
Life Test (Low Temperature)	Placed in a chamber (-40 ± 2 °C) for 48 hours, then placed in a natural condition for 2 hours.	
Humidity	Placed in a chamber (Humidity : 90% to 95% RH, Temp: 60 ± 2 °C) for 48 hours, then placed in a natural condition for 2 hours.	

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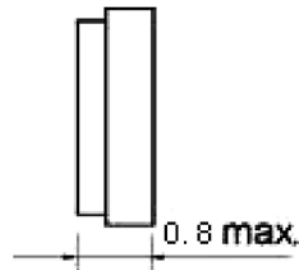
Dimensions

Top View



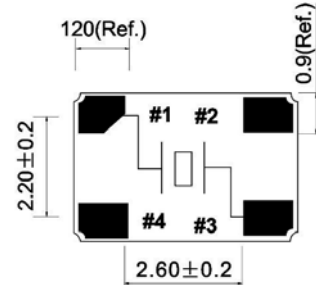
Unit : mm

Side View



Unit : mm

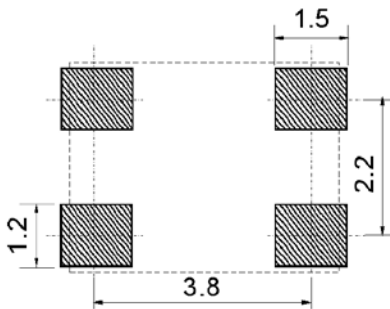
Bottom View



Unit : mm

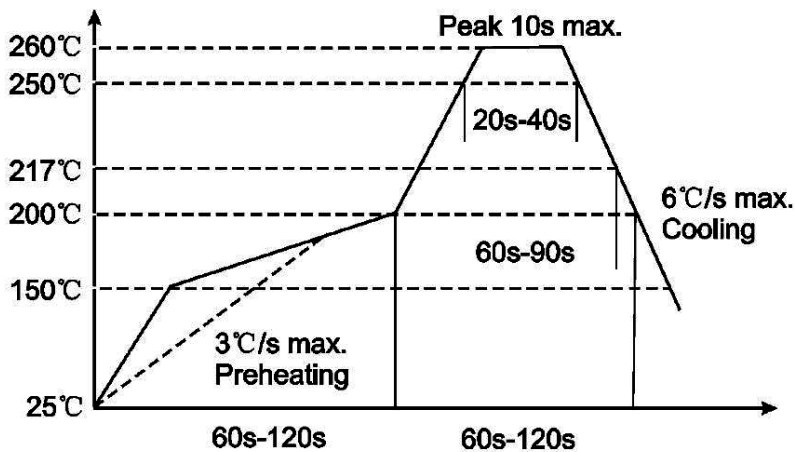
Marking #2 and #4 are connected to metal cap on top.

Recommended soldering pattern



Unit : mm

Reflow Profile

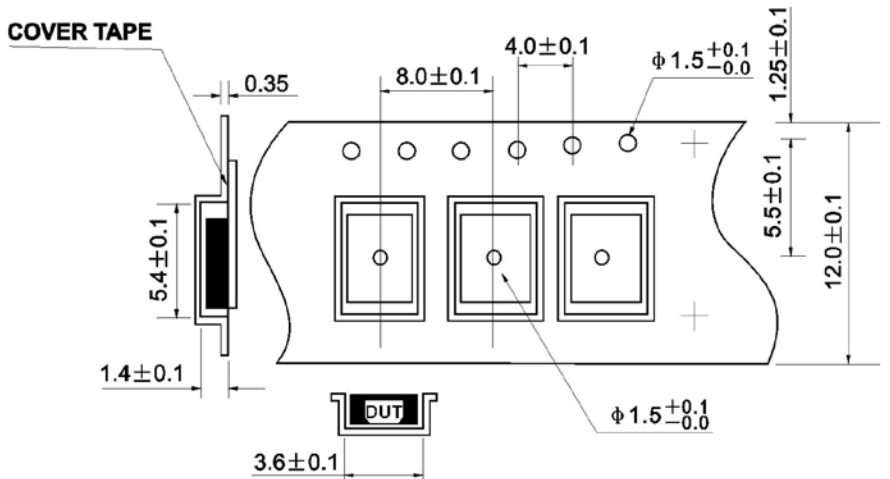


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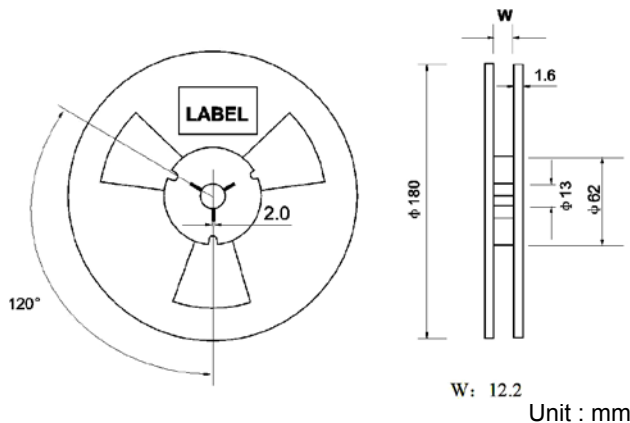
Packing Information

Tape Dimensions



Unit : mm

Reel



Part Number Table

Description	Part Number
Crystal, 18pF 26MHz, SMD	MCRT526000F183000RU

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