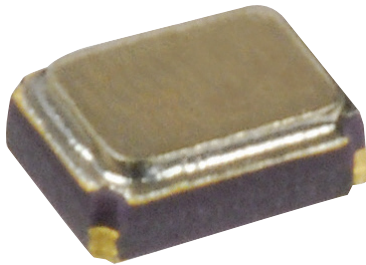


Crystal Resonator



Specifications:

Oscillation Mode	: AT, Fundamental
Nominal Frequency	: 24.576 MHz
Load Capacitance	: 18 pF
Storage Temperature	: -40°C to +85°C
Operable Temperature	: -20°C to +70°C

Electrical Performance

Frequency Stability	: ± 30 ppm at 25°C $\pm 3^\circ\text{C}$
Temperature Characteristics	: ± 30 ppm from -20°C to +70°C
Series Resistance	: 40 Ω max.
Supply Current	: 100mA max.
Shunt Capacitance	: 5 pF max.
Drive Level Nominal	: 100 μW
Insulation Resistance	: 500m Ω at DC 100V
Aging	: ± 3 ppm/year
Package Spec	: T & R

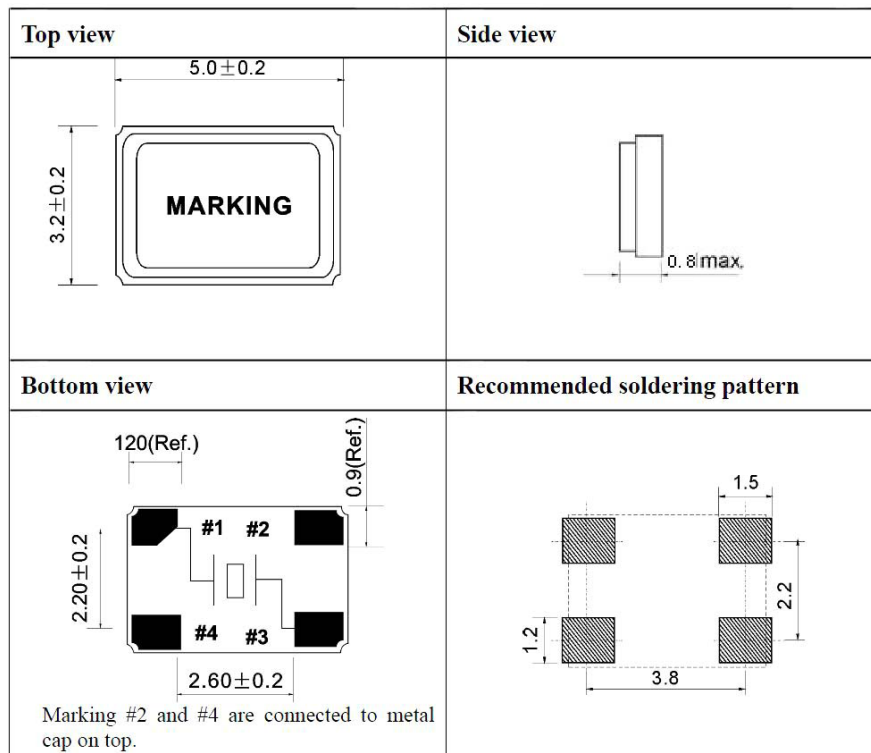
Physical & Environmental Parameters:

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 broad 3 times from high of 30cm.	
Solder Ability	Dipped the terminals no closer than 2mm into the solder bath at 240 $\pm 5^\circ\text{C}$ 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 2mm into the solder bath (260 $\pm 5^\circ\text{C}$) for 3 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 $\pm 2^\circ\text{C}$) for 48 hours, then placed in a natural condition for 2 hours	
Life Test (Low Temperature)	Placed in a chamber (-40 $\pm 2^\circ\text{C}$) for 48 hours, then placed in a natural condition for 2 hours	
Humidity	Placed in a chamber (Humi: 90% to 95% RH, Temp: 60 $\pm 2^\circ\text{C}$) for 48 hours, then placed in a natural condition for 2 hours	

Crystal Resonator

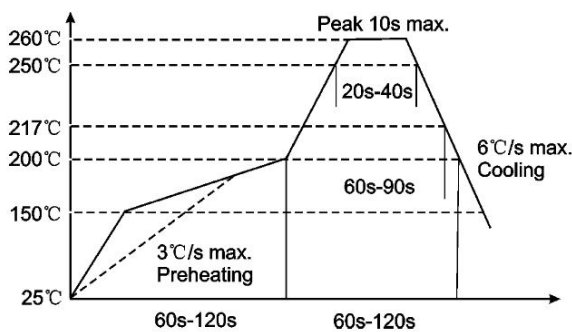


Dimensions



Dimensions : Millimetres

Reflow Profile



Part Number Table

Description	Part Number
Crystal, 24.576MHZ, 18PF, SMD	MCRT524576F183000RU

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