

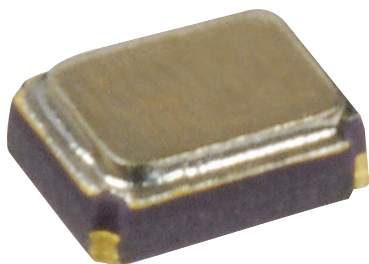


Specifications:

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 : ±30ppm at 25°C ±3°C
 Temperature Characteristics : ±30ppm from -20°C to +70°C
 Series Resistance : 40Ω max.
 Supply Current : 100mA max.
 Shunt Capacitance : 5 pF max.
 Drive Level Nominal : 100 uW
 Insulation Resistance : 500mΩ at DC 100V
 Aging : ± 3ppm/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 board 3 times from high of 30cm.	
Solder Stability	Dipped the terminals no closer than 2mm into the solder bath at 260±5°C for 10±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±5°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±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 (Humi: 90% to 95% RH, Temp: 40±2°C) for 48 hours, then placed in a natural condition for 2 hours	

Crystal Resonator

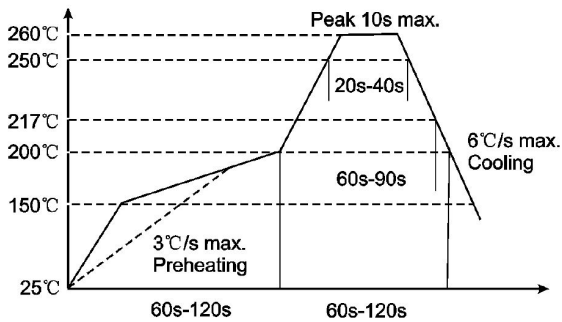


Dimensions

<p>Top view</p>	<p>Side view</p>
<p>Bottom view</p> <p>Marking #2 and #4 are connected to metal cap on top.</p>	<p>Recommended soldering pattern</p>

Dimensions : Millimetres

Reflow Profile



Part Number Table

Description	Part Number
Crystal, 24.576MHZ, 18PF, SMD	MCRT324576F183000RU

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