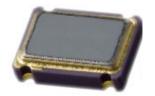
Oscillator





Specifications

Nominal Frequency	32.768 MHz
Storage Temperature	-55°C to +125°C
Operable Temperature	-20°C to +70°C

RoHS Compliant

Electrical Performance

Frequency Stability	±50 ppm overall from -20°C to +70°C	
Supply Voltage	3.3V ±10%	
Supply Current	15mA max.	
Transition Time	Rise Time 10ns max.	
	Fall Time 10ns max.	
Start Time	10ms max.	
Symmetry or Duty Cycle	40% / 60% at 1/2 VDD	
Output Waveform	CMOS	
Output Voltage	Vон : 90% VDD min.	
	VoL: 10% VDD max.	
Fanout	CMOS/15pF	
Aging	±3ppm/first year	

Physical and Environmental Parameters

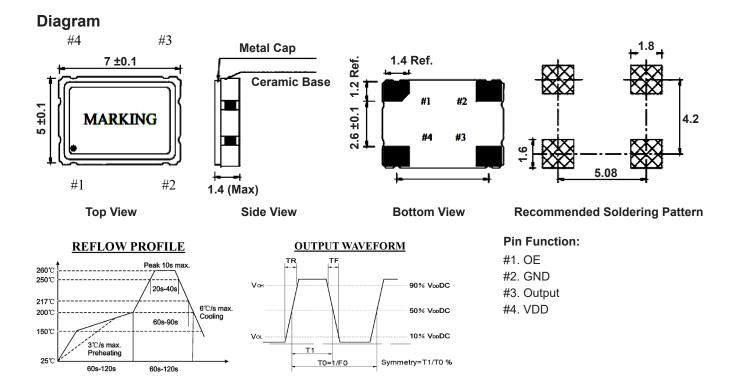
Description	Contents	Requirements
Vibration	10 ~ 55Hz, 0.75mm amplitude, in 3 directions duration of 30 minutes.	No mechanical damage and the measured values shall meet electrical parameters.
Random Dropping	The crystal will be test by natural dropping to 30mm wooden broad 3 times from high of 30cm	
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.	
Thermal Shock	Temperature cycling from -40°C (30mins) to +85°C (30mins) was performed 10 cycless, then placed in a natural condition for 24 hours.	Measured values shall meet electrical parameters.
Life Test (High Temperature)	Placed in a chamber (85 ± 2°C) for 72 hours, then placed in a natural condition for 24 hours.	
Life Test (Low Temperature)	Placed in a chamber (-40 ± 2°C) for 72 hours, then placed in a natural condition for 24 hours.	
Humidity	Placed in a chamber (Humi: 90 ~ 95% RH, Temp: 60 ±2°C) for 48 hours, then placed in a natural condition for 2 hours	

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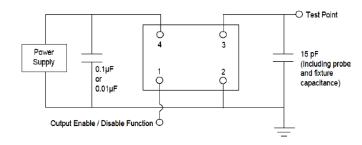


Oscillator





Test Circuit



Dimensions: Millimetres

Part Number Table

Description	Fanout	Part Number
Oscillator, 32.768MHz, 3.3V, 7mm×5mm	CMOS/15pF	MCOT7327683V30000RA

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