

## Specification

TO:STE

Model Name: Crystal Oscillator

PART NO:OSC8-12.288M-30-5V-E-TS

CUSTOMER PART NO.:

Approval sheet:

	Yes
Approved	No.
<p>Customer's comments are welcomed here.</p>          <p>Pls return this copy as a certificate of your approval by Email.</p>  <p>Approved By _____ Date: _____</p>	

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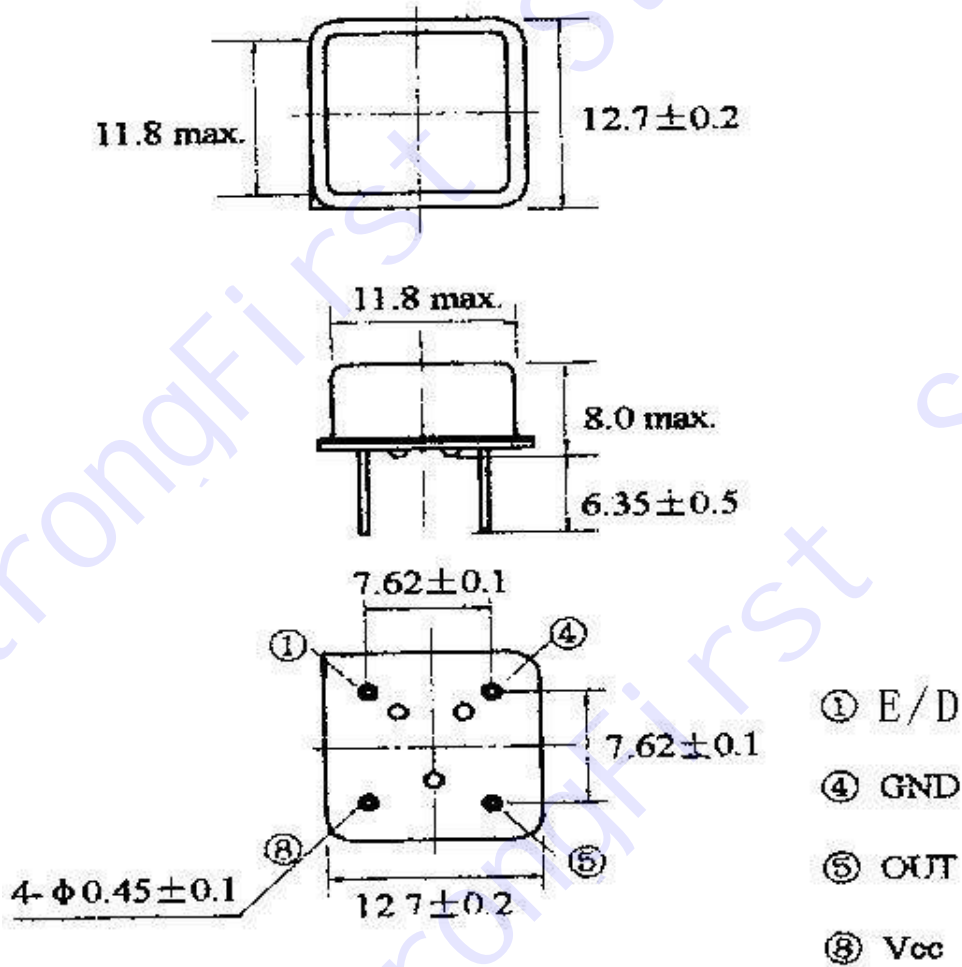
## 1. SCOPE

This specification shall cover the characteristics of clock oscillator with P/N: OSC8-12.2888M-30-5V-E-TS

## 2. ELECTRICAL SPECIFICATION

ITEM		SPECIFICATION
Package		DIP8 (half size)
Nominal Frequency		12.288MHz
Frequency Tolerance at 25°C		± 30PPM,
Temperature range		Operating: -40°C to +85°C Storage: -55°C to +105°C
Supply Voltage		5V
Input current		30mA
Output	Symmetry	40% to 60%
	Rise/fall time	10ns max
Output load TTL/HCMOS		CL=15PF or 10TTL
Aging		+/-3ppm/year max.
Tri-state or not		Yes, Pin1 E/D

3. DIMENSION



4. MECHANICAL SPECIFICATION

1) Terminal Strength

\* Lead pulling test

Conditions:	Load	907.2 gram
	Direction	To the downward
	Duration of applied force	5 seconds
Results:	There should be no distortion in appearance.	

\* Lead bending test

Conditions:	Load	453.6 gram
	Bending angle	$90^\circ$ to normal position
	Rate of bending	3 seconds in each cycle
	Number of bending	3
Results:	There should be no distortion in appearance.	

- 2) Lead solder ability test  
Conditions: Dipping in solder( $+230^{\circ}\text{C} \pm 5^{\circ}\text{C}$ )for 5 seconds  
Results: More than 95% of surface being tested should be coated uniformly with solder.
- 3) Vibration test  
Conditions: Frequency 10 – 55Hz  
Amplitude 0.762mm  
Sweep 1.0 minute  
Duration 2 hours  
Results: Frequency and wave form of tested products must remain within specifications.
- 4) Drop test  
Conditions: Method of drop Natural drop  
Dropping floor Hard wood board  
Height 30cm  
Number of drops 3 times  
Results: Frequency and wave form of tested products must remain within specifications.

## ENVIRONMENTAL SPECIFICATION

- 1) Temperature test
- \* Temperature cycling test  
Conditions: Steps of cycle 1) At  $-55^{\circ}\text{C}$ ,30 minutes  
2) At  $+25^{\circ}\text{C}$ ,10 - 15 minutes  
3) At  $+85^{\circ}\text{C}$ ,30 minutes  
4) At  $+25^{\circ}\text{C}$ ,10 - 15 minutes  
Number of cycles 3 times  
Results: Frequency and wave form of tested products must remain within specifications.
  - \* Low Temperature test  
Conditions: Temperature  $-20^{\circ}\text{C} \pm 2^{\circ}\text{C}$   
Length of test 96 hours  
Results: There should be no stain on surface of products.  
Frequency and wave form of tested products must remain within specifications.
- 2) Aging test  
Conditions: Temperature  $+85^{\circ}\text{C} \pm 20^{\circ}\text{C}$   
Length of test 96 hours

Results: Deviation of frequency must be less than  $\pm 3\text{ppm}$

3) Salt spray test

Conditions: Temperature  $+35^{\circ}\text{C} \pm 2^{\circ}\text{C}$   
Length of test 48 hours  
NaCl % 5%

Results: There should be no stain on surface of products.

4) Humidity test

Conditions: Temperature  $+40^{\circ}\text{C} \pm 2^{\circ}\text{C}$   
Relative humidity 90 - 95%  
Length of test 96 hours

Results: a. Insulation resistance must be  $500\text{ M}\Omega/100\text{ Vac}$ . minimum  
b. Resistance and wave form must remain within specifications.

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