SPECIFICATION OF CLOCK OSCILLATOR

1. Range

This specification shall cover the characteristics of clock oscillator

with Strong P/N: OSC8-16.384-25-3.3

2. ELECTRICAL SPECIFICATION

ITEM		SPECIFICATION
Package		DIP8 (half size)
Nominal Frequency		16.384MHz
Frequency Tolerance at 25°C		± 25 PPM
Temperature range		Operating: 0° C to $+70^{\circ}$ C
		Storage: -40°C to +85°C
Supply Voltage		3.3V±5%
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.

3. MECHANICAL SPECIFICATION

- 1) Terminal Strength
 - * Lead pulling test

Panne		
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° 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($+230^{\circ}C \pm 5^{\circ}C$) for 5 seconds
Results:	More than 95% of surface being tested should be



	coated uniformly v	with solder.
3) Vibration test		
Conditions	: Frequency	10 – 55Hz
	Amplitude	0.762mm
	Sweep	1.0 minute
	Duration	2 hours
Results:	Frequency and wa	ave form of tested products must
	Remain within spe	-
	-	
4) Drop test		
Conditions:	Method of drop	Natural drop
	Dropping floor	Hard wood board
	Height	30cm
	Number of drops	3 times
Results:	1	ve form of tested products must
	remain within speci	-
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4.ENVIRONMEN	TAL SPECIFICA	TION
1) Temperature t	est	
, 1	re cycling test	
-	: Steps of cycle	1) At -55℃,30 minutes
		2) At +25 °C,10 - 15 minutes
		3) At +85 °C,30 minutes
		4) At $+25^{\circ}$ C,10 - 15 minutes
		$\pm j$ i i ± 25 \bigcirc , i 0 ± 15 minutes

	Number of cycles 3 times		
Results:	Frequency and wave form of tested products must		
	remain within specifications.		

- * Low Temperature test Conditions: Temperature $-20^{\circ}C \pm 2^{\circ}C$ 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℃±20℃	
	Length of test	96 hours	
Results:	Deviation of frequency must be less than		± 3 ppm

3) Salt spray test Conditions: Temperature $+35^{\circ}\text{C}\pm2^{\circ}\text{C}$



	Length of test	48 hours
	NaCI %	5%
Results:	There should be no stain on surface of products.	

4) Humidity test

Conditions:	Temperature	$+40^{\circ}\text{C}\pm2^{\circ}\text{C}$
	Relative humidity	90 - 95%
	Length of test	96 hours
Results:	sults: a. Insulation resistance must be 500 M Ω /100 Vac. minimum b. Resistance and wave form must remain within specifications	

5. DIMENSION

