



SPEC NO .: CU-212SMD

Specification

TO:STE508 Model Name: Crystal Oscillator PART NO: SOC5032-10.000M-50-3.3V-A CUSTOMER PART NO.:

AIT KOVAL SHEET	
	Yes
Approved?	No.
Customer's comments are welcomed here.	
Pls return this copy as a certificate of your approval by email.	
Approved By Date:	

APPROVAL SHEET

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History Record

Date	Part No.	SPEC No.	Description.	Remarks.
		Approved by	Check by	Design by
RoHS Compliant Lead free Lead-free soldering	ISO9001:2000 ISO14001:2004	May-15-2009	May-10-2009	Jan-16-2009
Reversions	Total Page	- Xu gang dong	Liu jun	Wang hon
CU-02SMD		ru yuny aong		evang non



SPECIFICATION

1. RANGE:

This specification shall cover the characteristics of crystal oscillator

with Strong's P/N: SOC5032-10.000M-50-3.3V-F

2. ELECTRICAL SPECIFICATION

ITEM	SPECIFICATION
Package	S5032
Output Signal Waveform	CMOS
Frequency Range	10.000MHz
Current Consumption	30mA Max
Frequency Stability	±50ppm Max
Load	15pF
Output Symmetry	45~55 (at 50%VDD)
Rise Time/Fall Time	10nS Max.
Temperature Range	Operating: -20~+70°C
	Storage: -45℃ to 85℃
Supply Voltage	3.3V+-5%
Output Level	1V Max
Aging	\pm 3ppm/year Max

3. DIMENSION





4. MECHANICAL SPECIFICATION

1) T *	 Terminal Strength * Lead pulling test 				
	Conditions:		907.2 gram		
	conditions.	Direction	To the downward		
		Duration of applied force	5 seconds		
	Results:	There should be no distortion			
	itebuitb.		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) L	ead solder abi	lity test			
	Conditions:	Dipping in solder (+260 °C \pm 5 °C	C) for 3 seconds		
	Results:	More than 95% of surface being	g tested should be		
		coated uniformly with solder.			
3) V	ibration test				
	Conditions:	Frequency	10 – 55Hz		
		Amplitude	0.762mm		
		Sweep	1.0 minute		
		Duration	2 hours		
	Results:	Frequency and wave form of te	sted products must		
		Remain within specifications.			
	op test				
(Conditions:	Method of drop	Natural drop		
	Ι	Dropping floor	Hard wood board		
	I	Height	30cm		
	1	Number of drops	3 times		
]	Results:	Frequency and wave form of tested products must			

remain within specifications.



5. ENVIRONMENTAL SPECIFICATION

1) Temperature test

1) Temperature	test	
* Temperat	ure cycling test	
Condition		1) At -55°C,30 minutes
		2) At +25°C,10 - 15 minutes
		3) At $+105^{\circ}$ C, 30 minutes
		4) At +25°C,10 - 15 minutes
	Number of cycles	3 times
Results:	•	ve form of tested products must
	remain within spec	-
	- - - - - - - -	
* Low Temp	perature test	
Conditions	: Temperature	-45℃±2℃
	Length of test	96 hours
Results:	There should be no	stain on surface of products.
	Frequency and wav	e form of tested products must
	remain within speci	fications.
2) Aging test		
Conditions:	Temperature	$+105^{\circ}\text{C}\pm5^{\circ}\text{C}$
	Length of test	96 hours
Results:	Deviation of freque	ncy must be less than ± 3 ppm
3) Salt spray tes	st	
Conditions:	Temperature	$+35^{\circ}\text{C}\pm2^{\circ}\text{C}$
	Length of test	48 hours
	NaCI %	5%
Results:	There should be no st	ain on surface of products.
4) Humidity tes	1	
Conditions:	Temperature	$+40^{\circ}\text{C}\pm2^{\circ}\text{C}$
Conditions.	Relative humidity	90 - 95%
	2	90 - 93 % 96 hours
Dogulta.	Length of test	
Results:	Results: a. Insulation resistance must be 500 M Ω /100 Vac. minimum b. Resistance and wave form must remain within specifications.	
	U. Resistance and Wav	e form must remain within specifications.

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