

## 1. SCOPE

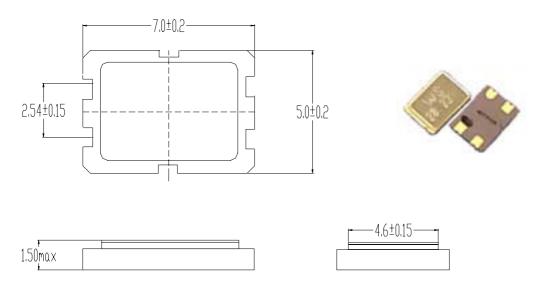
This specification shall cover the characteristics of crystal unit with

SMD0705-10.00-27.00MHz

## 2. ELECTRICAL SPECIFICATION

ITEM	SPECIFICATION
HOLDER TYPE	SMD0705
NOMINAL FREQUENCY	10.00—27.00MHz
LOAD CAPACITANCE	10PF to series
OSCILLATION MODE	Fundamental
FREQUENCY TOLERANCE AT $25^{\circ}C \pm 2^{\circ}C$	±30PPM
EQUIVALENT SERIES RESISTANCE	$40\Omega$ max.
DRIVE LEVEL	0.5MW
OPERATING TEMPERATURE RANGE	-10°C~+60°C
FREQUENCY STABILITY	±30PPM
SHUNT CAPACITANCE	<7PF
AGING	$\pm$ 5PPM/YEAR
INSULATION RESISTANCE	$>500M \Omega$ at DC 100V

## 3.Dimension (mm)



Wing Shing Computer Components Co., (H.K.)Ltd. Homepage: http://www.wingshing.com Tel:(852)2341 9276 Fax:(852)2797 8153 E-mail: wsccltd@hkstar.com

## 4. MECHANICAL SPECIFICATION 1) Terminal Strength \* Lead pulling test Conditions: Load 907.2 gram Direction To the downward 5 seconds Duration of applied force **Results:** There should be no distortion in appearance. Lead bending test Conditions: Load 453.6 gram Bending angle $90^{\circ}$ to normal position 3 seconds in each cycle Rate of bending Number of bending 3 There should be no distortion in appearance. **Results:** 2) Lead solderability test Conditions: Dipping in solder( $\pm 230^{\circ}C \pm 5^{\circ}C$ ) for 5 seconds **Results:** More than 95% of surface being tested should be coated uniformly with solder. 3) Vibration test Conditions: Frequency 10 - 55 HzAmplitude 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 Hard wood board Dropping floor Height 30cm Number of drops 3 times **Results:** Frequency and wave form of tested products must remain within specifications.

5. ENVIRONMENTAL SPECIFICATION					
1	1) Temperature test				
	* Temperature cycling test				
	Condition	ns: Steps of cycle	1) At -55°C,30 minutes		
			2) At +25°C,10 - 15 minutes		
			3) At $+85^{\circ}$ C, 30 minutes		
			4) At +25°C,10 - 15 minutes		
		Number of cycles	3 times		
	Results: Frequency and wave form of tested products must		e form of tested products must		
		remain within specif	remain within specifications.		
* Low Temperature test					
	Condition	s: Temperature	$-20^{\circ}\text{C}\pm2^{\circ}\text{C}$		
		Length of test	96 hours		
	Results:	There should be no s	stain on surface of products.		
		Frequency and wave	form of tested products must		
	remain within specifications.				
	2) Aging test				
	Conditions:	Temperature	$+85^{\circ}\text{C}\pm20^{\circ}\text{C}$		
		Length of test	96 hours		
	Results:	Deviation of frequen	Deviation of frequency must be less than $\pm 3$ 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.		in on surface of products.		
۷	4) Humidity test				
	Conditions:	Temperature	$+40^{\circ}\text{C}\pm2^{\circ}\text{C}$		
		Relative humidity	90 - 95%		
		Length of test	96 hours		
	Results: a. Insulation resistance must be 500 M $\Omega$ /100 Vac. minimum				
	b. Resistance and wave form must remain within specifications				