

1. SCOPE

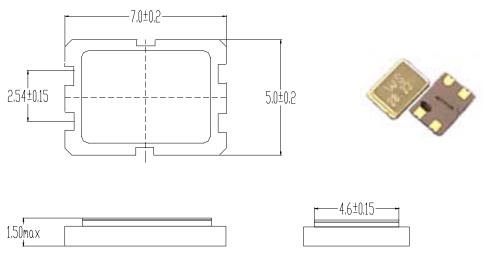
This specification shall cover the characteristics of crystal unit with

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	40Ω max.
DRIVE LEVEL	0.5MW
OPERATING TEMPERATURE RANGE	-10°C~+60°C
FREQUENCY STABILITY	±30PPM
SHUNT CAPACITANCE	<7PF
AGING	\pm 5PPM/YEAR
INSULATION RESISTANCE	$>500 \mathrm{M}^{\Omega}$ at DC 100V

3.Dimension (mm)



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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° 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 solderabi	lity test		
2)	Conditions:	•	C)for 5 seconds	
	Results:			
	icounts.	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 the	ested products must	
	Remain within specifications.			
4) Drop test				
т) I	Conditions:	Method of drop	Natural drop	
	Conditions.	Dropping floor	Hard wood board	
		Height	30cm	
		· ·	3 times	
Number of drops		*		
	Results:	Frequency and wave form of tes	sted products must	
		remain within specifications.		

5.	. ENVIRONMENTAL SPECIFICATION				
	1) Temperature test				
	* Temperature cycling test				
	Conditio	ns: Steps of cycle	1) At -55°C,30 minutes		
			2) At +25°℃,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 way	ve form of tested products must		
		remain within speci	remain within specifications.		
	* Low Temperature test				
	Condition	-	$-20^{\circ}\text{C}\pm2^{\circ}\text{C}$		
	Condition	Length of test	96 hours		
	Results:	e	stain on surface of products.		
	Kesuits.		-		
	Frequency and wave form of tested products must remain within specifications.				
		remain within speci	ications.		
	2) Aging test				
	Conditions:	Temperature	$+85^{\circ}\text{C}\pm20^{\circ}\text{C}$		
		Length of test	96 hours		
	Results:	Deviation of frequer	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) TT 114 4				
	4) Humidity te				
	Conditions:	1	$+40^{\circ}C \pm 2^{\circ}C$		
		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.				

5. ENVIRONMENTAL SPECIFICATION