

HC-49/S SMD

1. SCOPE

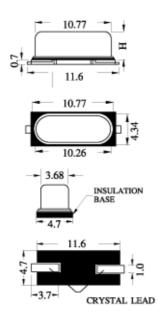
This specification shall cover the characteristics of crystal unit with

HC-49/S SMD 3.579545—27.00MHz

2. ELECTRICAL SPECIFICATION

ITEM	SPECIFICATION
HOLDER TYPE	HC-49/S SMD
NOMINAL FREQUENCY	3.579545—27.00MHz
LOAD CAPACITANCE	10PF to series
OSCILLATION MODE	Fundamental
FREQUENCY TOLERANCE AT $25^{\circ}C \pm 2^{\circ}C$	± 30 PPM
EQUIVALENT SERIES RESISTANCE	Based on frequency
DRIVE LEVEL	0.5MW
OPERATING TEMPERATURE RANGE	-10°C~+60°C
FREQUENCY STABILITY	± 30 PPM
SHUNT CAPACITANCE	7PF max
AGING	\pm 5PPM/YEAR
INSULATION RESISTANCE	$>$ 500M Ω at DC 100V

3. Dimension (mm)





H=4.0mm

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4. MECHANICAL SPECIFICATION

1) Terminal Strength

Lead pulling test			
m			
wnward			
ce.			
m			
ormal position			
s in each cycle			
There should be no distortion in appearance.			

2) Lead solderability 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 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		

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5.	5. ENVIRONMENTAL SPECIFICATION			
	1) Tempe	erature tes	st	
	· -		cycling test	
		-	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
	Rea	sults:	Frequency and wave	e form of tested products must
	remain within specifications.		cations.	
	ψ T	т		
		v Tempera		
	Con	ditions:	Temperature	$-20^{\circ}C \pm 2^{\circ}C$
	Dee		Length of test	96 hours
	Res	sults:		tain on surface of products.
				form of tested products must
			remain within specifi	cations.
	2) Aging	; test		
	Condi	tions:	Temperature	$+85^{\circ}\text{C}\pm20^{\circ}\text{C}$
			Length of test	96 hours
	Resul	lts:	Deviation of frequence	ey must be less than ± 3 ppm
	3) Salt sp	orav test		
	Condit	•	Temperature	$+35^{\circ}\text{C}\pm2^{\circ}\text{C}$
			Length of test	48 hours
			NaCI %	5%
	Resu	lts: T	here should be no stai	n on surface of products.
	4) Humio	dity test		
	Condi	-	emperature	$+40^{\circ}\text{C}\pm2^{\circ}\text{C}$
	Conu		elative humidity	90 - 95%
			ength of test	96 hours
	Result		0	hust be 500 M $\Omega/100$ Vac. minimum
	b. Resistance and wave form must remain within specifications.			
		υ.		ionin must remain within specifications.