

SPECIFICATION

1. Range:

This specification shall cover the characteristics of crystal unit with STRONG'S **P/N: STF26F-32.768K-12.5-20**

2. ELECTRICAL SPECIFICATION

ITEM	SPECIFICATION
PACKAGE TYPE	STF26F
NOMINAL FREQUENCY	32.768KHz
LOAD CAPACITANCE	12.5PF
FREQUENCY TOLERANCE $(25^{\circ}C \pm 2^{\circ}C)$	±20PPM
EQUIVALENT SERIES RESISTANCE	$35K \Omega$ max
DRIVE LEVEL	1.0 μ W
OPERATING TEMPERATURE RANGE	-20°C~+70°C
STORAGE TEMPERATURE	-45°C~+85°C
AGING	±5PPM/YEAR
INSULATION RESISTANCE	>500M Ω

3. MECHANICAL SPECIFICATION

1) Terminal Stren	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:	Results: 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:	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:		form of tested products must		
		remain within specific	ations.		
4.EN	4.ENVIRONMENTAL SPECIFICATION				
1)	Temperature	test			
	* Temperatu	re cycling test			
	Condition	s: 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:		e form of tested products must		
		remain within specif	ications.		
:	* Low Temp				
	Conditions:	1	-20°C ±2°C		
		Length of test	96 hours		
	Results: There should be no stain on surface of products.				
	Frequency and wave form of tested products must				
2)	A sing tost	remain within specifi	cations.		
2)	Aging test	Toma anotana			
	Conditions:	Temperature	+85 ℃ ±20 ℃ 96 hours		
	Results:	Length of test Deviation of frequence			
	Results.	Deviation of frequence	cy must be less than ± 3 ppm		
3)	Salt spray tes	t			
	Conditions:	Temperature	$+35^{\circ}C \pm 2^{\circ}C$		
		Length of test	48 hours		
		NaCI %	5%		
	Results:	There should be no stai	n 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:	a. Insulation resistance r	nust be 500 M $\Omega/100$ Vac. minimum		
		b. Resistance and wave	form must remain within specifications.		

5. TF206F DIMENSION & SOLDER PAD LAYOUT (Unit: mm)



