

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°C ± 2°C)	± 20PPM
EQUIVALENT SERIES RESISTANCE	35K Ω 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 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 solderability test

Conditions: Dipping in solder(+230°C ± 5°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 remain within specifications.	

4.ENVIRONMENTAL SPECIFICATION

1) Temperature test

* Temperature cycling test

Conditions:	Steps of cycle	1) At -55°C,30 minutes
		2) At +25°C,10 - 15 minutes
		3) At +85°C,30 minutes
		4) At +25°C,10 - 15 minutes
	Number of cycles	3 times
Results:	Frequency and wave form of tested products must remain within specifications.	

* Low Temperature test

Conditions:	Temperature	-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 remain within specifications.	

2) Aging test

Conditions:	Temperature	+85°C ± 20°C
	Length of test	96 hours
Results:	Deviation of frequency must be less than ± 3ppm	

3) Salt spray test

Conditions:	Temperature	+35°C ± 2°C
	Length of test	48 hours
	NaCl %	5%
Results:	There should be no stain on surface of products.	

4) Humidity test

Conditions:	Temperature	+40°C ± 2°C
	Relative humidity	90 - 95%
	Length of test	96 hours
Results:	a. Insulation resistance must be 500 M Ω /100 Vac. minimum b. Resistance and wave form must remain within specifications.	

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

