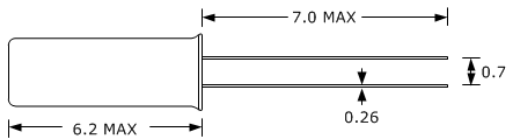


FEATURES	APPLICATIONS
±20ppm (Tolerance) Available - RoHS Compliant - Low Frequency Tuning Fork - Miniature Package	- Real Time Clock - Measurement instruments - Wireless Applications



PART NUMBERING GUIDE	
SUNTSU TUNING FORK CRYSTAL → STF 62 2 B 48 - 48.000kHz ← FREQUENCY (kHz) 6.2mm x 2.1mm → 2 LEAD → OPERATING TEMPERATURE RANGE 16: -10°C to + 60°C 48: -40°C to + 85°C FREQUENCY TOLERANCE B: ±30ppm D: ±20ppm	
Cage Code: 4GUT4 To customize your parameters contact a Suntsu representative.	

ELECTRICAL PARAMETERS	UNITS	MIN.	TYP.	MAX.	REMARKS
Frequency Range	kHz	25.000		200.00	
Frequency Tolerance at +25°C	ppm	-20		+20	See part numbering guide for options.
Frequency Stability vs. Aging	ppm	-3		+3	First year @ +25°C.
Frequency Coefficient (β)	ppm/T ²	-0.040	-0.035	-0.030	
Operating Temperature	°C	-40		+85	See part numbering guide for options.
Turnover Temperature	°C	+20	+25	+30	
Storage Temperature	°C	-55		+125	
Load Capacitance	pF		12.5		
Shunt Capacitance	pF		1.5		
Drive Level	μW			1	
Insulation Resistance	MΩ	500			@ 100V _{DC} ± 15V.
Equivalent Series Resistance	kΩ			50	

OUTLINE DRAWING	MARKING
	Line 1: XX.XXX Y WW Frequency in kHz → XX.XXX → Y → WW Year → Y → WW → Week
NOTE: Dimensions in millimeters (mm).	

ENVIRONMENTAL SPECIFICATIONS		MECHANICAL SPECIFICATIONS	
Temperature Cycling	MIL-STD-883, Method 1010, Condition B	Moisture Resistance	MIL-STD-883, Method 1004
Fine Leak Test	MIL-STD-883, Method 1014, Condition A	Moisture Sensitivity	Hermetically Sealed, MSL=N/A: Not Applicable
Gross Leak Test	MIL-STD-883, Method 1014, Condition C	Resistance to Soldering Heat	MIL-STD-202, Method 210, Condition K
Moisture Resistance	MIL-STD-883, Method 1004	Resistance to Solvents	MIL-STD-202, Method 215
Moisture Sensitivity	J-STD-020, MSL 1	Solderability	MIL-STD-883, Method 2003