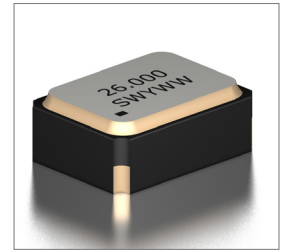


Features
<ul style="list-style-type: none"> ±0.5ppm (Frequency Stability) Available CMOS (VC)TCXO Tape and Reel H-Type Package

Applications
<ul style="list-style-type: none"> GPS Mobile Communication Equipment IoT, Wearable Electronics WiMAX, WLAN



Part Numbering Guide

STH 21 C 18 R 48 V G - 26.000M

SUNTSU TCXO H-Type

2.0mm x 1.6mm

CMOS

SUPPLY VOLTAGE

18 : 1.8V±5%
 25: 2.5V±5%
 27: 2.7V±5%
 28: 2.8V±5%
 30: 3.0V±5%
 33: 3.3V±5%

FREQUENCY STABILITY

O : ±2.5ppm
 P : ±2.0ppm
 Q : ±1.5ppm
 R : ±1.0ppm
 F : ±0.5ppm

FREQUENCY
MHz

PULLABILITY
BLANK : TCXO
G : ±5.0ppm

TCXO/VCTCXO
BLANK : TCXO
V : VCTCXO

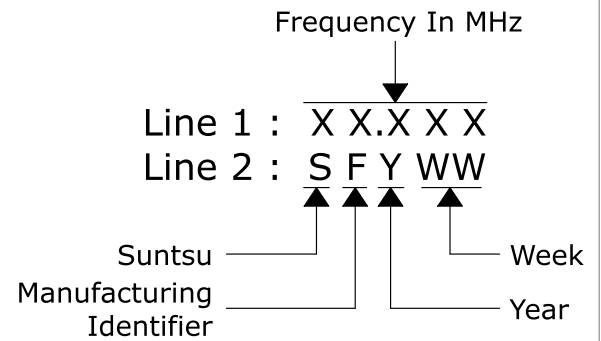
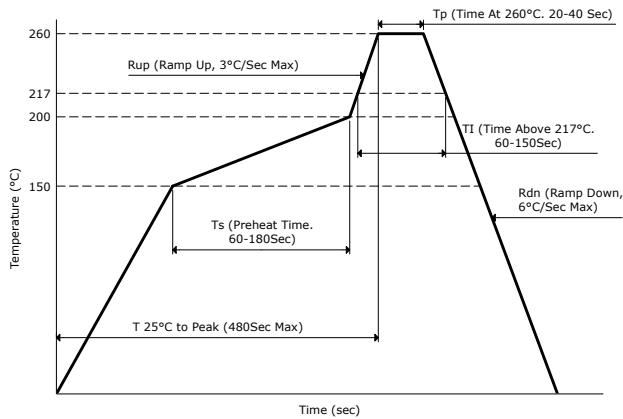
OPERATING TEMPERATURE RANGE

07 : 0°C - 70°C
 16 : -10°C - 60°C
 17 : -10°C - 70°C
 27 : -20°C - 70°C
 37 : -30°C - 75°C
 38 : -30°C - 85°C
 48 : -40°C - 85°C

Cage Code: 4GUT4
 To customize your parameters contact a Suntsu representative.

Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency Range	MHz	13		52	
Frequency Tolerance at +25°C	ppm	-2.5		2.5	
Freq. Stability vs. Op Temp.	ppm	-0.5		0.5	See part numbering guide for options.
Freq. Stability vs. Supply Voltage	ppm	-0.2		0.2	V _{DD} ±5% change.
Freq. Stability vs. Load	ppm	-0.2		0.2	±10% change
Freq. Stability vs. Aging 1 Year	ppm	-1.0		1.0	
Freq. Stability vs. Aging 10 Years	ppm	-5.0		5.0	
Operating Temperature	°C	-30		85	See part numbering guide for options.
Storage Temperature	°C	-40		85	
Supply Voltage (V _{DD})	V	1.8		3.3	See part numbering guide for options.
Current (I _{DD})	mA			2.0	
Control Voltage (VCTCXO)	V	0.4		2.4	
Pullability (VCTCXO)	ppm	±7.0		±16.0	See part numbering guide for options.
Linearity (VCTCXO)	%	-10		10	
Output Load (CMOS)	pF		10		
Output Logic HIGH Level (V _{OH})	V	0.9*V _{DD}			
Output Logic LOW Level (V _{OL})	V			0.1*V _{DD}	
Symmetry (Duty Cycle)	%	40	50	60	
Start-Up Time	ms			5.0	
VC Input Impedance (VCTCXO)	kΩ	500			
Phase Noise (Typical) 1KHz Offset	dBc/Hz		-130		At 19.2MHz

Reflow Profile & Part Marking



Environmental Specifications

Temperature Cycling	MIL-STD-883, Method 1010, Condition B
Fine Leak Test	MIL-STD-883, Method 1014, Condition A
Gross Leak Test	MIL-STD-883, Method 1014, Condition C
Solderability	MIL-STD-883, Method 2003
Moisture Sensitivity	J-STD-020, MSL 1

Mechanical Specifications

Mechanical Shock	MIL-STD-202, Method 213, Condition B
Vibration	MIL-STD-883, Method 2007, Condition A
Moisture Resistance	MIL-STD-883, Method 1004
Resistance to Solvents	MIL-STD-202, Method 215
Resistance to Soldering Heat	MIL-STD-202, Method 210, Condition K