

Main Feature

- RoHS compliant
- Cross Ref. No.

Application

- PCS Base Stations
- Measurement Equipment



38.8*38.8*15mm

Standard Specification

Frequency Range: 1.0 ~ 160.0MHz
 Oscillation Mode: AT Cut, SC Cut
 Supply Voltage: 3.0VDC, 5.0VDC, 12.0VDC
 Storage Temperature: -40 °C ~ +85°C
 Frequency Accuracy: ±0.5ppm(Center control voltage)
 Phase Noise: 1Hz, -80dBc/Hz, 10Hz, -120dBc/Hz
 100Hz, -140dBc/Hz, 1KHz, -145dBc/Hz, 10KHz, -150dBc/Hz
 Adjustable Frequency Range: AT Cut: ±7.0ppm Max, SC Cut: ±1.0ppm

FREQUENCY STABILITY VS TEMPERATURE Table 1

Code	Frequency Stability Vs Temp.	Temp. Range
01	±0.01ppm(AT Cut) Max.	0°C ~+50°C
02	±0.002ppm(SC Cut) Max.	0°C ~+50°C
03	±0.03ppm(AT Cut) Max	-20°C ~+70°C
04	±0.01ppm(SC Cut) Max.	-20°C ~+70°C
05	±0.05ppm(AT Cut) Max	-40°C ~+75°C
06	±0.01ppm(SC Cut) Max.	-40°C ~+75°C

Frequency Stability vs. Load: ±0.02ppm vs. ±10% load change

Frequency Stability vs. Voltage: ±0.02ppm vs. ±5% voltage change

Control Voltage Range: 0~5V

Slope: Positive, Linearity: ±10%

Supply Consumption: 4.0W(Max.)when warm-up, 1.5W(Max.)when static

Warm-up Timp: AT Cut: ±0.2ppm, <1m, SC Cut: ±0.05ppm, <1m

Aging: AT Cut: First year ±0.1ppm, 10year ±1ppm

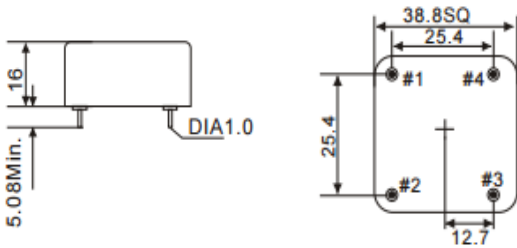
SC Cut: First year ±0.1ppm, 10year ±0.1ppm

Table 2

OUTPUT WAVEFORM & LOAD CHARACTERISTICS

Output Waveform	Output Characteristics	Option Code
Clipping Sine	Load: 10K /10pF Output level: >1Vp-p	C
TTL	Load: Max.10 low power consumption TTL gates "1" level: >+2.4VDC "0" level: <+0.2VDC Duty Cycle: 45/55 Rise/fall time: <6ns	D
HCMOS	Load: Max.10 low power consumption TTL/HCMOS "1" level: >+4.3VDC "0" level: <+0.5VDC Duty Cycle: 45/55 Rise/fall time: <6ns	E
ACMOS	Load: Max.10 low power consumption TTL/ACMOS "1" level: >+4.3VDC "0" level: <+0.5VDC Duty Cycle: 45/55 Rise/fall time: <6ns	F
Sine Wave	Load: Nominal value 50 Ω Output level: >2dBm Harmonic Attenuation: <-25dBc Noise Attenuation: <-75dBc	G

Dimension (Unit: mm)



PIN	FUNCTION
#1	GND
#2	Power Supply
#3	Output
#4	Control Voltage

TGS part No. Guide

TGS	0	E	50	A	01	C	B	LF	XX	-20M480
	1	2	3	4	5	6	7	8	9	10

- 1) 0: OCXO 2) E: Dimensions 3) Supply Voltage; 50-5.0V; 30-3.3V; 4) Oscillation Mode: A: AT Cut S: SC Cut
 5) See Table 1 6) See Table 2 7) B: Bulk 8) LF: RoHS compliant
 9) XX: 2 letters as Internal Control Code 10) Frequency Range in MHz or specify