## Main Feature

- RoHS compliant
- Cross Ref. No.

## Application

- PCS Base Stations
- Measurement Equipment

36.1*27.2*15mm

## Standard Specification

Frequency Range: 1.0 ~ 100.0MHz
Oscillation Mode: AT Cut,SC Cut
Supply Voltage: 3.0VDC, 5.0VDC,12.0VDC
Storage Temperature: -40 ℃~ +85℃
Frequency Accuracy: ±0.5ppm(Center control voltage)
Phase Noise:1Hz,-80dBc/Hz,10Hz,-120dBc/Hz
100Hz,-140dBc/Hz,1KHz,-145dBc/Hz,10KHz,-150dBc/H
Adjustable Frequency Range:AT Cut:±7.0ppm Max,SC Cut:±1.0
Frequency Stability vs.Load:±0.05ppm vs. ±10% load change
Frequency Stability vs.Voltage:±0.05ppm vs. ±5% voltage change
Control Voltage Range: 0~5V
Slope: Positive, Linearity: ±10%
Supply Consumption: 3.6W(Max.)when warm-up, 1.2W(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

FREQUENCY STABILITY VS TEMPERATURE Table 1

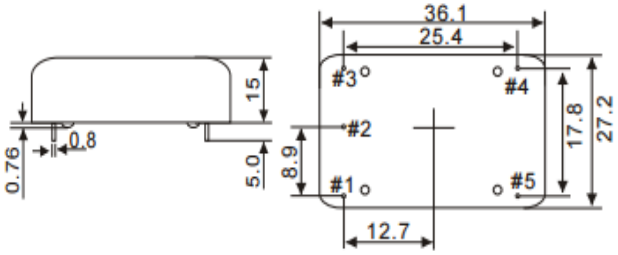
| Code | Frequency Stability Vs Temp. | Temp. Range |
|---|---|---|
| 01 | ±0.01ppm(AT Cut) Max. | 0℃ ~+50℃ |
| 02 | ±0.002ppm(SC Cut) Max. | 0℃ ~+50℃ |
| 03 | ±0.03ppm(AT Cut) Max | -20℃ ~+70℃ |
| 04 | ±0.01ppm(SC Cut) Max. | -20℃ ~+70℃ |
| 05 | ±0.05ppm(AT Cut) Max | -40℃ ~+75℃ |
| 06 | ±0.01ppm(SC Cut) Max. | -40℃ ~+75℃ |
| 07 | ±0.005ppm(SC Cut) Max. | -20℃ ~+70℃ |

Table 2

OUTPUT WAVEFORM & LOAD CHARACTERISTICS

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

## Dimension ( Unit: mm)




| PIN | FUNCTION |
|---|---|
| #1 | Control Voltage |
| #2 | Reference Voltage/NC |
| #3 | Power Supply |
| #4 | Output |
| #5 | GND |

## TGS part No. Guide

| TGS | 0 | D | 50 | A | 01 | C | B | LF | XX | -60M000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

1) O: OCXO 2)D: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