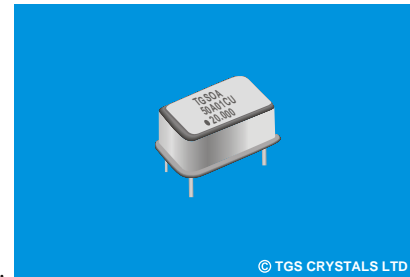


FEATURES

- Stability up to ±0.05ppm
- Low Aging
- Compact Package

APPLICATIONS

- SDH/SONET
- ATM
- WLL
- Measurement Equipment



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SPECIFICATION \*

Parameters	Product	Option Code
	OCXO	O
Frequency Range: 1.0 ~ 100.0MHz	△	Specify
Dimensions: 20.8X13.2X12.7mm	△	A
Oscillation Mode: AT Cut	△	A
SC Cut	△	S
Supply Voltage(V <sub>DD</sub> ): +3.0VDC	△	30
+5.0VDC	△	50
+12.0VDC	△	12
Frequency Stability vs Temp. : See Table 1	△	Specify
Operating Temp. Range: See Table 1	△	Specify
Storage Temp. Range: -40℃ ~+85℃	▲	
Frequency Accuracy: ±1ppm(Center control voltage)	▲	
Phase Noise: 10Hz,-100dBc/Hz	▲	
100Hz,-120dBc/Hz	▲	
1KHz,-135dBc/Hz	▲	
10KHz,-145dBc/Hz	▲	
Adjustable Frequency Range: ±7.0ppm Max.	▲	
Output Wave Form & Load Characteristics: See Table 2	△	Specify
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: 1.5W(Max.)when warm-up	▲	
0.5W(Max.)when static	▲	
Warm-up Temp: ±0.1ppm,<1Min	▲	
Aging: First year ±0.5ppm	▲	
10year ±3ppm	▲	
Package: Bulk	▲	

▲ Standard \* Specifications Subject to Change Without Notice  
 △ Optional: please specify required code when inquiring or ordering

PACKAGE

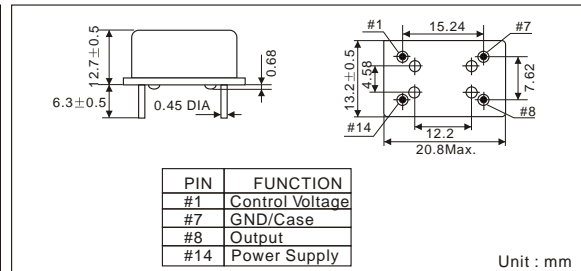
- Standard package in Bulk & Packed in box.

PART NUMBER GUIDE

TGS	O	A	50	A	01	C	-40M000
Mark	OCXO	Dimensions	Supply Voltage	Oscillation Mode	See Table 1	See Table 2	Frequency Range

e.g. Full P/N.: TGS OA50A01C - 40M000

DIMENSIONS \*



\* Available in Special Dimension Requested by Customer

FREQUENCY STABILITY VS TEMPERATURE

Table 1

Code	Frequency Stability Vs Temp.	Temp. Range
01	±0.05ppm Max.	0℃~+50℃
02	±0.2ppm Max.	-20℃~+70℃
03	±0.5ppm Max.	-40℃~+75℃

OUTPUT WAVEFORM & LOAD CHARACTERISTICS

Table 2

Output Waveform	Output Characteristics	Option Code
Clipping Sine Wave	Load: 10KΩ/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

STANDARD FREQUENCIES

Frequency in MHz

10.00000	20.48000	40.00000	77.76000
12.28800	28.32200	50.00000	80.00000
14.40000	30.00000	60.00000	90.00000
20.00000	38.88000	70.00000	100.0000

