

# TCXO 20

## Temperature Compensated Crystal Oscillator



### Specification

Model	TCXO20
Frequency Range, MHz	1.0 ~ 40.0
Demensions, mm	20.5x20.5x11.0
Supply Voltage, VDC	+5.0, +9.0, +12.0
Frequency Stability vs Temp.	See Table 1
Supply current	See Table 2
Operating Temp, °C	See Table 1
Storage Temp, °C	-40 ~ +100
Frequency Stability vs Loas	±0.1ppm Max vs ±10% load change
Frequency Accuracy, ppm	±1.0 max
Aging, PPM	±0.5 year max
Package	Bulk

### Output Waveform & Load Characteristic

Output Waveform	Output Characteristics	Option Code
Clipping Sine Wave	Load: 10K /10pF Output level: >1Vp-p Current: 4mA Max Load: Max 10 low power consumption TTL gates "1" level: >+2.4VDC	01
TTL	"0" level: <+0.2VDC Duty Cycle: 40/60 Rise/fall time: <6ns Current: 20mA Max Load: max 10 low power consumption TTL/HCMOS "1" level: >+4.5VDC	02
HCMOS	"0" level: <+0.5VDC Duty Cycle: 40/60 Rise/fall time: <6ns Current: 20mA Max Load: max 10 low power consumption TTL/ACMOS "1" level: >+4.5VDC	03
ACMOS	"0" level: <+0.5VDC Duty Cycle: 40/60 Rise/fall time: <6ns Current: 20mA Max	04

Table 2

### Application

- SDH/SONET
- ATM
- WLL
- Mesasurement Equipment

### Features

- Wide Freq. Range up to 40.0MHz
- Low Aging
- TTL, HCMOS, ACMOS, Clipping Sing Wave, Sing Wave

### Standart Frequencies

#### Standart Frequencies in MHz

7.000000	9.600000
7.280000	10.00000
9.000000	40.00000
9.100000	

Other frequencies available. Please consult our sales office.

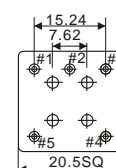
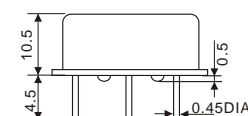
### Frequency Stability vs Temperature

#### Frequency Stability Temp Range

±1.5ppm max	0°C ~ +50°C
±1.0ppm max	0°C ~ +70°C
±1.5ppm max	-20°C ~ +70°C
±2.0ppm max	-30°C ~ +75°C
±3.0ppm max	-40°C ~ +85°C

Table 1

### Trough hole Dimension, mm



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