

TCXO OSCILLATORS

TC23 SERIES

MILITARY TYPE TEMPERATURE COMPENSATED CRYSTAL OSCILLATOR

APPLICATIONS: COMMUNICATIONS EQUIPMENT

STANDARD FREQUENCIES: 3.2 MHz, 10.0 MHz, 20.0 MHz, 25.0 MHz

Typical Electrical Characteristics

Frequency Range : 3.0 MHz to 200.0 MHz

Frequency Stability : ± 1.0 ppm, ± 1.5 ppm, ± 2.0 ppm, ± 2.5 ppm, ± 5.0 ppm,

Operating Temp Range : A. 0°C to +50°C E. -20°C to +70°C
 B. 0°C to +60°C F. -30°C to +75°C
 C. 0°C to +70°C G. -30°C to +85°C
 D. -10°C to +60°C H. -55°C to +105°C

Supply Voltage Change : $\pm .2$ ppm

Supply Voltage : + 8V Dc ± 5 %

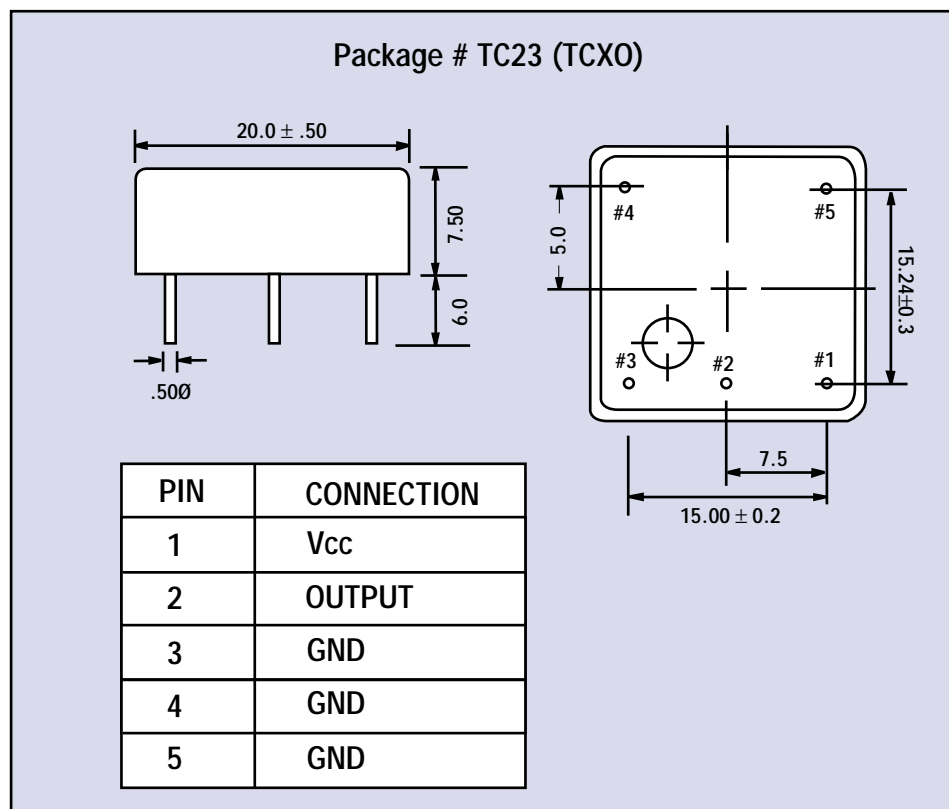
Current Consumption: 3.2 MHz to 15.0 MHz = 7 mA Max
 15.0 MHz to 60.0 MHz = 15 mA Max
 60.0 MHz to 200.0 MHz = 40 mA Max

Output Voltage : 1 V p-p, 0 dbm Min

Output Load : 10K ohms // 10pF, 50 ohms sinewave

Frequency Adjust : ± 3.0 ppm Min

Aging: ± 1.0 ppm / year



TCXO OSCILLATORS

TC25 SERIES

COMMERCIAL TYPE TEMPERATURE COMPENSATED CRYSTAL OSCILLATOR

APPLICATIONS: MOBILE COMMUNICATIONS, CELLULAR

STANDARD FREQUENCIES: 10.0 MHz, 12.8 MHz, 14.4 MHz, 15.36 MHz, 16.384 MHz

Typical Electrical Characteristics

Frequency Range : 8.0 MHz to 50.0 MHz

Frequency Stability : ± 1.5 ppm, ± 2.0 ppm, ± 2.5 ppm, ± 5.0 ppm,

Operating Temp Range : A. 0°C to $+50^{\circ}\text{C}$ E. -20°C to $+70^{\circ}\text{C}$

B. 0°C to $+60^{\circ}\text{C}$ F. -30°C to $+75^{\circ}\text{C}$

C. 0°C to $+70^{\circ}\text{C}$ G. -30°C to $+85^{\circ}\text{C}$

D. -10°C to $+60^{\circ}\text{C}$

Supply Voltage Change : $\pm .2$ ppm

Supply Voltage : $+5\text{V Dc} \pm 5\%$

Current Consumption: 2 mA Max

Output Voltage : 1 V p-p Min

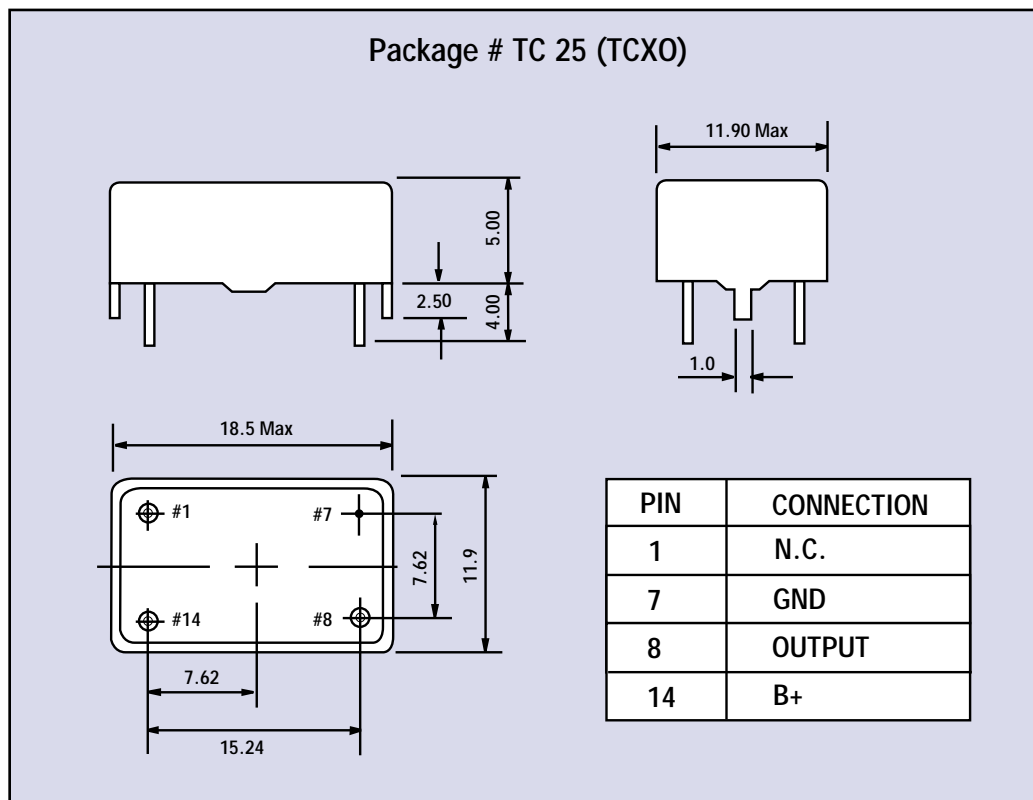
Output Load : 10K ohms // 10pF,

20K ohms // 5pF

Frequency Adjust : ± 2.0 ppm Min

Aging: $\pm .5$ ppm / year

Audio Modulation Available



TCXO OSCILLATORS

TC26/31/32 SERIES

COMMERCIAL TYPE TEMPERATURE COMPENSATED CRYSTAL OSCILLATOR

APPLICATIONS: MOBILE COMMUNICATIONS, CELLULAR AND GPS

STANDARD FREQUENCIES: 9.6 MHz, 10.0 MHz, 12.8 MHz, 14.4 MHz, 19.2 MHz

Typical Electrical Characteristics

Frequency Range : 8.0 MHz to 50.0 MHz

Frequency Stability : ± 1.5 ppm, ± 2.0 ppm,
 ± 2.5 ppm, ± 5.0 ppm,

Operating Temp Range :

- A. 0°C to +50°C
- B. 0°C to +60°C
- C. 0°C to +70°C
- D. -10°C to +60°C
- E. -20°C to +70°C
- F. -30°C to +75°C
- G. -30°C to +85°C

Supply Voltage Change : $\pm .3$ ppm

Supply Voltage : + 3V Dc ± 5 %
+ 5V Dc ± 5 %

Current Consumption: 2 mA Max

Output Voltage : 1 V p-p Min

Output Load : 10K ohms // 10pF
20K ohms // 5pF

Frequency Adjust : ± 2.0 ppm Min

Aging: $\pm .5$ ppm / year

Audio Modulation Available

