



T300 SERIES, ECL

High Reliability Hybrid Microcircuit Crystal Oscillators



Frequency Range 10 MHz to 220 MHz
 Frequency Accuracy @ +25 °C ± 15 PPM
 Frequency Stability Vs. Temperature See Options Below
 Operating Temperature Range See Options Below
 Input Voltage - 5.2 VDC ± 10%

Input Current at -5.2 VDC (No Load) 50 mA Max.

Output 10K & 10KH Compatible
 Load 100 Ω to - 2.0 VDC
 Symmetry 60/40% @ 50% Level
 Rise & Fall Times (10% to 90% Level) 2 nS Max.

Enable/Disable Input See Option Below

Start-up Time 10 mS Max.

Phase Jitter (10 KHz to 20 MHz Integrated) 0.1 pS rms Typical

Frequency Stability Vs. 10% change in Voltage ± 4 PPM Max.

Aging at +70 °C ± 3 PPM Max. first year, ± 2 PPM Max./ Yr. thereafter

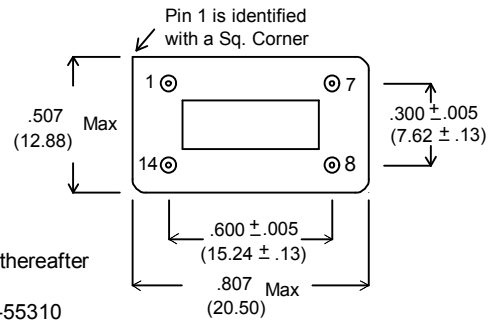
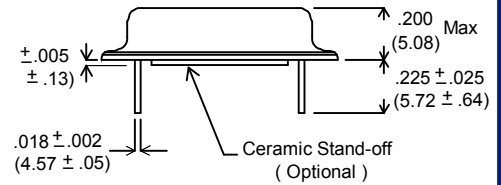
Package & Hermeticity Conforms to the Requirements of MIL-PRF-55310

Terminations 50 to 80 Microinches gold over 100 to 250 microinches Nickel, Hot Solder Tinning per MIL-PRF-55310 is optional at additional cost.

Lead Soldering, Temp./Time 260 °C Max for 10 Seconds Max.

Package Weight & Thermal Resistance (θ_{JC}) 4.0 Gms typical, 50 °C / Watt

- Ruggedized crystal mount
- High Shock & Vibration
- Low Profile Package



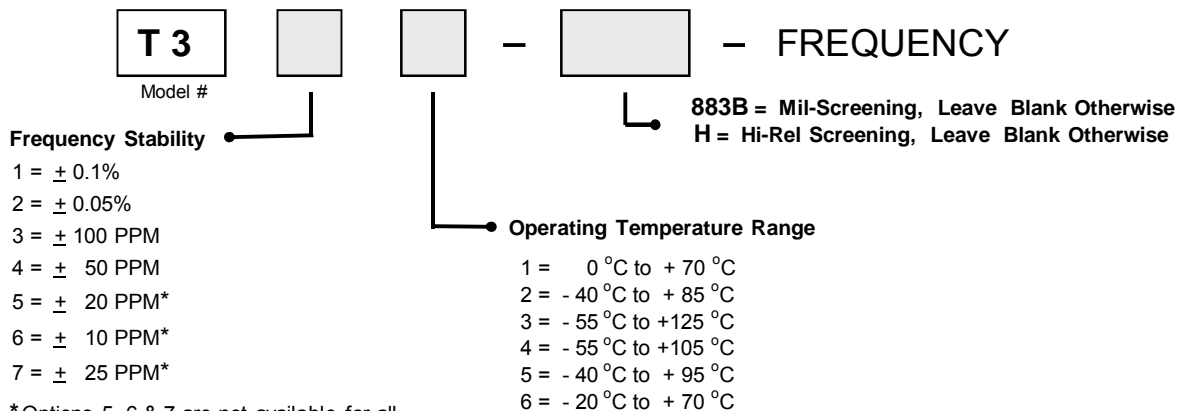
Dimensions: Inches (mm)

Pin #	Function
14	GND/CASE
7	-5.2 VDC
8	OUTPUT
1	N/C

NOTE: For PECL applications, Xsis 300 Series ECL oscillators can be operated with +5 VDC ± 10% on Pin 14 and power supply return on Pin 7. The output logic levels will still be referenced to +5 VDC and the case will be at +5 VDC, however, 0.8 V peak to peak output signal can be AC or DC coupled.

Contact Xsis Engineering for any other special requirements.

ORDERING INFORMATION (Select from options below) :



EXAMPLE: T343 - 883B - 24.000 MHz = 10KH ECL Output, ± 0.005% over -55 °C to +125 °C, Mil-Screened, and 24.000 MHz