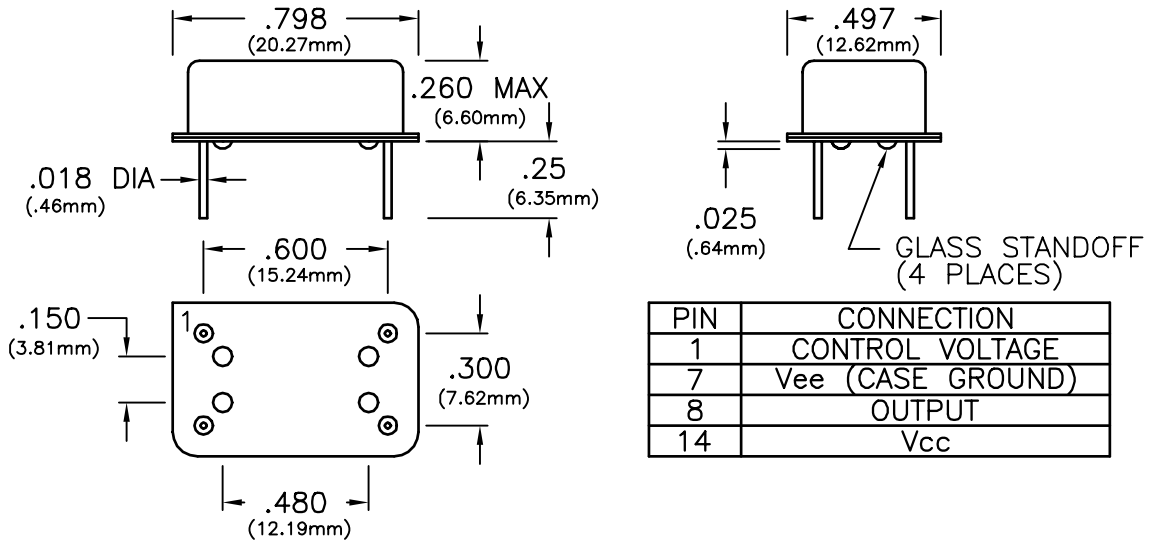


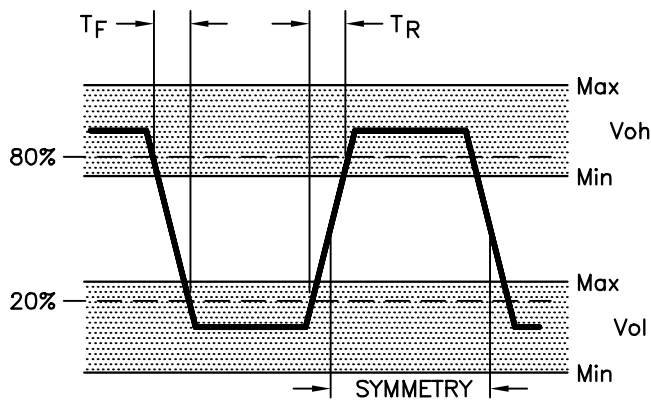
**14 PIN DIP PLL-BASED PECL VCXO**

SPECIFICATIONS	GV13-520	GV13-530	GV13-540	GV13-620	GV13-630	GV13-640
Available Frequency Ranges	120 to 135 MHz 144 to 168 MHz 174 to 205 MHz 232 to 270 MHz 288 to 336 MHz 348 to 410 MHz 464 to 540 MHz 576 to 672 MHz			144 to 168 MHz 174 to 205 MHz 288 to 336 MHz 348 to 410 MHz 576 to 672 MHz		
Operating Temp Range	0°C to +70°C			-40°C to +85°C		
Storage Temp Range	-55°C to +125°C					
Frequency Stability	±50ppm	±100ppm	±20ppm	±50ppm	±100ppm	±20ppm
Waveform	PECL Squarewave , 100K Compatible					
Load	Output must be terminated into 50 Ohms to 3Vdc.					
Voltage $\frac{V_{oh}}{V_{ol}}$	4.0V Minimum , 4.5V Maximum 2.9V Minimum , 3.9V Maximum					
Symmetry	45/55 Maximum measured at 50% level					
Rise/Fall Time	750pS Maximum					
Jitter	10pS rms Maximum					
SSB Phase Noise	-100dBc/Hz Typical @ 10KHz offset					
Frequency Control	Positive Transfer Characteristic					
Control Voltage	0 to 5V					
Deviation @25°C	±75ppm Minimum , ±140ppm Maximum					
Center Frequency @25°C	Control Voltage 2.5Vdc ±0.5Vdc					
Linearity	< ±10%					
Input Impedance	> 50K Ohms @ < 10 KHz					
Supply Voltage	+5Vdc ±5%					
Supply Current	100mA Maximum					
Package	All metal, hermetically sealed, welded package					

# CRYSTAL CONTROLLED OSCILLATORS



## OUTPUT WAVEFORM



## TEST CIRCUIT

