



CRYSTAL CONTROLLED OSCILLATORS

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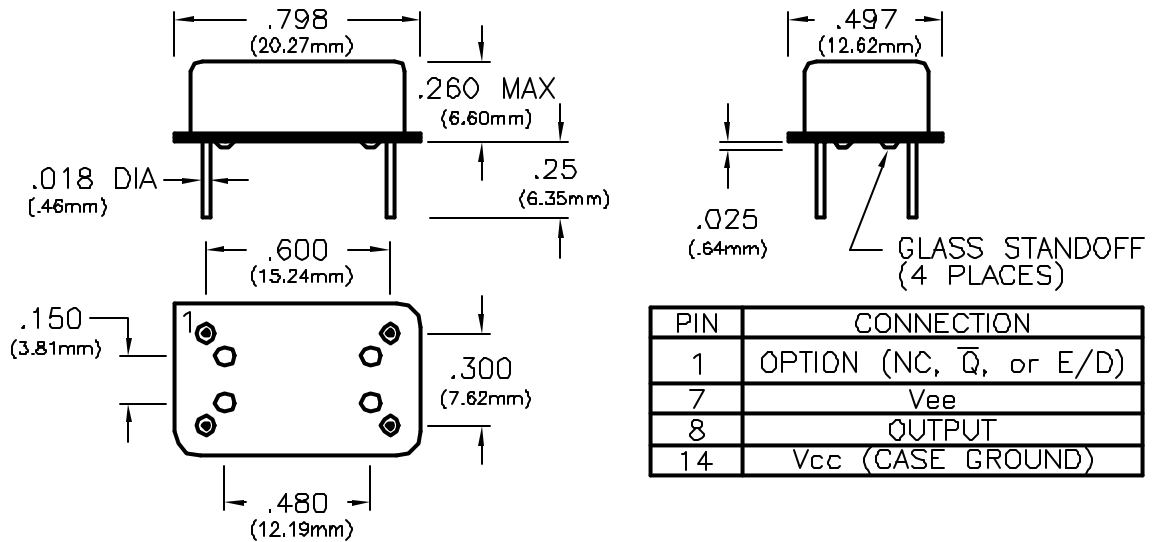
14 PIN DIP ECL PLL FREQUENCY MULTIPLIER

SPECIFICATIONS	GA01-52*	GA01-53*	GA01-54*	GA01-62*	GA01-63*	GA01-64*
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		
Frequency Stability	±50ppm	±100ppm	±20ppm	±50ppm	±100ppm	±20ppm
	Inclusive of calibration tolerance at 25°, operating temperature range, supply voltage change, load change, aging, shock and vibration.					
Operating Temp Range	0°C to +70°C			-40°C to +85°C		
Storage Temp Range	-55°C to +125°C					
Output	Waveform	ECL Squarewave, 100K Compatible				
	Load	Output must be terminated into 50 Ohms to -2Vdc.				
	Voltage V_{oh}	-1.0V Minimum, -0.5V Maximum				
	V_{ol}	-2.1V Minimum, -1.6V 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					
Enable/Disable Option (Pin 1):	Enable (V_{il})	-4.5Vdc Maximum				
	Disable (V_{ih})	-3.5Vdc Minimum				
Supply Voltage (V_{ee})	Q (Pin 8) disables to low state. When Pin 1 is floating, output is in disabled state. -5.2Vdc ±5%					
Supply Current	100mA Maximum					
Package	All metal, hermetically sealed, welded package					
Options * - add suffix to model number	0	Pin 1: No Connection				
	1	Pin 1: Complementary Output				
	2	Pin 1: Enable/Disable				

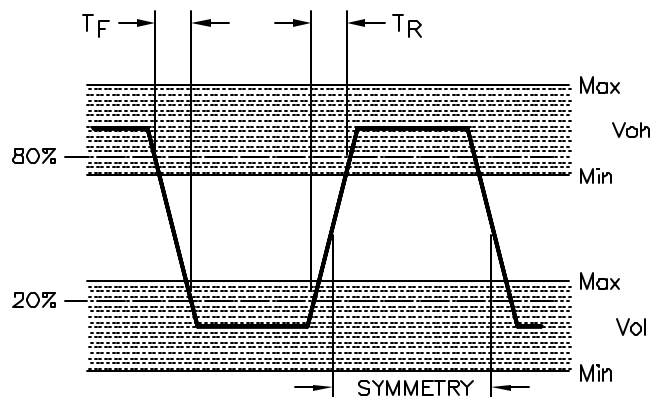
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REV: 10
DATE: 2/6/04

Specifications subject to change without notice. **C-W © 2000**
ISSUED BY: _____
Dimensional Tolerance: ±.02"
±.005"



OUTPUT WAVEFORM



TEST CIRCUIT

