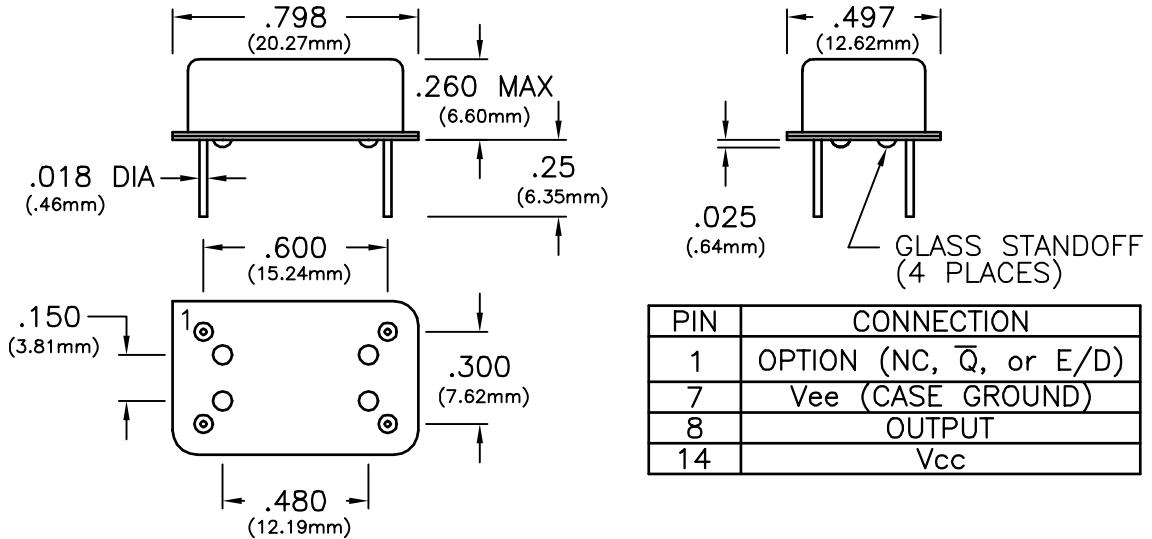
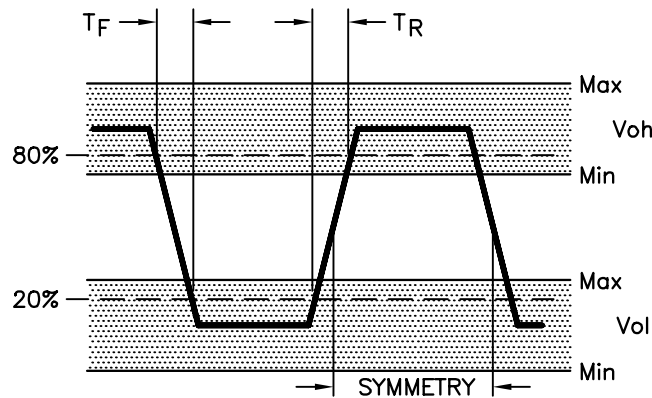


14 PIN DIP ECL PLL FREQUENCY MULTIPLIER

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					
Waveform	ECL Squarewave , 100K Compatible					
Load	Output must be terminated into 50 Ohms to -2Vdc.					
Voltage	Voh	-1.0V Minimum , -0.5V Maximum				
	Vol	-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 (Vil)	-4.5Vdc Maximum				
	Disable (Vih)	-3.5Vdc Minimum				
		Q (Pin 8) disables to low state. When Pin 1 is floating, output is in disabled state.				
Supply Voltage (Vee)	-5.2Vdc ±5%					
Supply Current	100mA Maximum					
Package	All metal, hermetically sealed, welded package					
Options	0	Pin 1: No Connection				
* - add suffix to model number	1	Pin 1: Complementary Output				
	2	Pin 1: Enable/Disable				



OUTPUT WAVEFORM



TEST CIRCUIT

