VCXO [Voltage Controlled Crystal Oscillators] *GSR8 series* *3.3 V*

Dip type True Sine wave
12.8 x 12.8 x 5.5 mm



RoHS Compliance

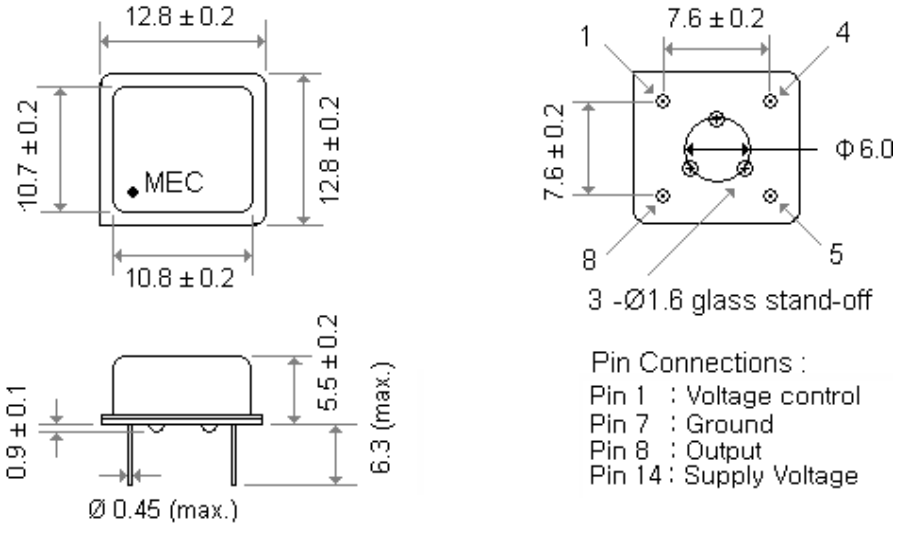
Applications :

- High purity and low total harmonic distortion. Ideal for audio applications

General Specifications

Paramenters		Electrical Spec.							
Input Voltage (V_{DD})		3.3 V ± 5 %							
Frequency Range		10.0 ~ 30.0 MHz							
Output Wave Form		True Sine wave output							
Output Level		1.0 V p-p (typical)							
Frequency Deviation Range		Standard : ± 80 ppm (min.)							
Initial Freq. Accuracy (at 25 °C)		To tune to the nomial frequency with Vc = 1.65V ± 0.2V							
Control Voltage Center / Control Voltage Range		1.65 VDC / 0.3V to 3.0V							
Load		10 KΩ // 10 pF load							
Harmonics		< - 25dBc (frequency dependent)							
Current Consumption (typical)		1.1 mA							
Input Impedance		> 0.5 M Ω							
Modulation Bandwidth (at -3 dB)		25 KHz (min.)							
Voltage Control Range		0.0 V to V_{DD} with control voltage center at 50% of V_{DD}							
Start - Up Time (Ts)		2.0 m Sec.(typ.)							
Linearity		±10 % (max.)							
Storage Temperature		- 50°C to 100°C							
Aging		± 3 ppm per year (max.)							
Frequency Stability [1] Codes	Frequency Stability over Operating Temperature Range	± 25 ppm	± 50 ppm	± 100 ppm	If non-standard , please enter the desired stability after the " C " or " I " For example : " C20 " ±20 ppm over -10°C to +70°C ; " I20 " ± 20 ppm over -40°C to +85°C				
	Commercial (*-10°C to +70°C*)	*A*	*B*	*C*					
	Industrial (*-40°C to +85°C*)	*D*	*E*	*F*					
Phase Noise (typical) [27.0 MHz at 3.3V]		Offset	10 Hz	100 Hz	1K Hz	10 KHz	100KHz	1 MHz	10 MHz
		dBc / Hz	-75	-110	-125	-132	-128	-132	-135

Outline Dimensions (Unit : mm)



Pin Connections :
Pin 1 : Voltage control
Pin 7 : Ground
Pin 8 : Output
Pin 14 : Supply Voltage

Mercury www .mercury-crystal.com

■Taiwan : (886)-2-2406-2779 / sales-tw@mercury-crystal.com ■U.S.A: (1)-909-466-0427 / sales-us@mercury-crystal.com ■China : (86)-512-5763-8100 / sales-cn@mecxtal.com