VCXO [Voltage Controlled Crystal Oscillators] *G576 series 3.3 V*

SMD CMOS output 6 pads
7.0 x 5.0 x 1.8 mm

RoHS Compliance

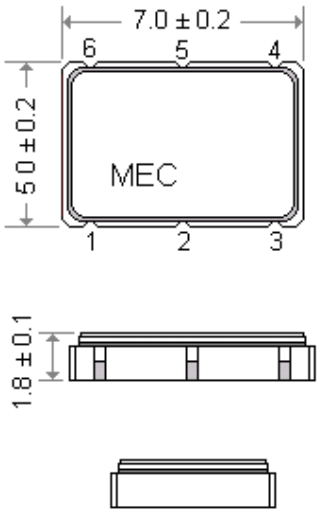
Applications : Tri-state function on Pad No. 2 , 5

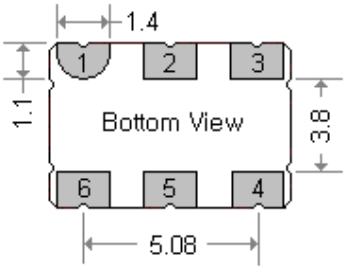
- SONET / ATM
- set -top boxes
- audio -video modulations
- video game consoles and HDTV sets
- MPEG , SONET , 10GbE
- Fibre Channel , Transponders
- Wireless repeaters
- HDTV , FPGAs , data acquisition

General Specifications

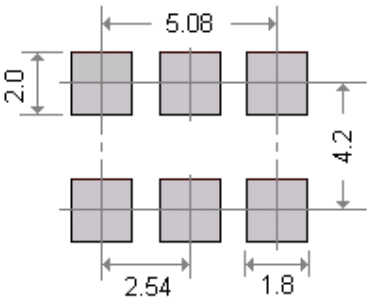
Paramenters		Electrical Spec.							
Input Voltage (V_{DD})		3.3 V ± 5 %							
Frequency Range		0.625 ~ 50.0 MHz [Fundamental crystal used]							
Output Wave Form		TTL / CMOS output							
Initial Freq. Accuracy (at 25 °C)		To tune to the nomial frequency with Vc = 1.65V ± 0.2V							
Output Logic High " 1 "		TTL	2.4 V (min.)		CMOS	2.97 V (min.)			
Output Logic Low " 0 "		TTL	0.4 V (min.)		CMOS	0.33 V (min.)			
Frequency Deviation Range		Standard : ± 80 ppm (min.)							
Control Voltage Center / Control Voltage Range		1.65 VDC / 0.3V to 3.0V							
Output Load		15 pF							
Rise Time (Tr)		6 nSec.(max.) ; 4 nSec.(typ.) . Measured between 0.4V to 2.4V.							
Fall Time (Tf)		6 nSec.(max.) ; 4 nSec.(typ.) Measured 20% to 80% of wave form							
Duty Cycle		50% ± 10% [50% ± 5% is also available]							
Current Consumption		20 mA (max.)							
Start - Up Time (Ts)		10 m sec. (max.) ; 5 m sec.(typical)							
Integrated Phase Jitter (12 KHz to 20 MHz) .		1 ps (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	-104	-132	-145	-148	-150	-152

General Specifications (Unit : mm)





Pad Connections :
Pad 1 : Control Voltage
Pad 2 : Tri - state
Pad 3 : Ground
Pad 4 : Output
Pad 5 : Tri - state
Pad 6 : Supply voltage



Suggested Land Pattern

Mercury www .mercury-crystal.com

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