GXL GSTYPE PECL/LVDS Crystal Oscillator

FEATURE

1.Typical 7.5 x 5.0 x 1.9 mm 6 Pads Ceramic SMD package.
2.Tight symmetry (45 to 55%) available.
3.Low phase jitter.
4.Complementary output.
5.Grounded cover for reduced EMI.

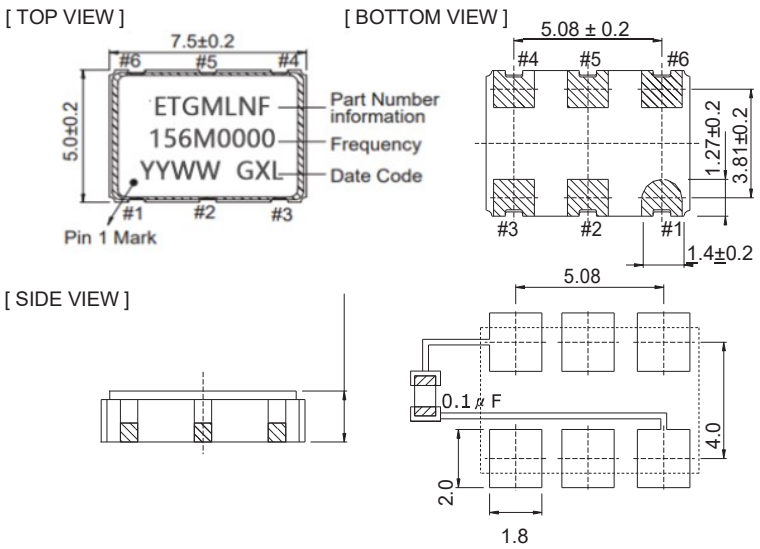
Ordering Information

G XO	S Package (mm)	E Supply Voltage (V)	T Tri-State Function	G Freq. Stability (ppm)	C Temp. Range (°C)	L Output Logic and Symmetry	Dash	N Appearance	F Lead Free	Dash	? Freq.(MHz)
	7.5x5	J: 2.5 E: 3.3	T: Input to Pin2 (std.) R: Input to Pin1 (case by case)	G: ± 50 H: ±100	I: -40~+85 M: -55~+125	L: PECL/50±5% V: LVDS/50±5%		N:Normal	F:RoHS Compliant		xx.xxxxxx

Ordering Example: GSETGML-NF-156.250000 MHz

XO T-TYPE; V_{DD}: 3.3V; with Tri-State, input to Pin2; Freq. Stability: ±50ppm; Temp Range: -55°C to+125°C; PECL output, Symmetry: 50±5%; Normal Appearance; RoHS Compliant; Freq. 156.250000MHz.

Package and Pinout



Pin	Function
#1	NC / Tri-State
#2	Tri-State / NC
#3	GND
#4	Output
#5	Comp. Output
#6	V_{DD}

Performance Specifications

Output Logic	PECL				LVDS				Unit
Parameter	Min.		Max.		Min.		Max.		
	3.3	2.5	3.3	2.5	3.3	2.5	3.3	2.5	V
Supply Voltage Variation(V_{DD}) 5%	3.135	2.375	3.465	2.625	3.135	2.375	3.465	2.625	
Frequency Range	38.88		250		38.88		250		MHz
Standard Frequency	38.88 62.5 77.76 100 106.25 125 155.52 156.25 159.375 161.1328 164.3554 167.3316 187.5 212.5								MHz
Operating Temp. Range	Refer to Ordering Information								°C
Frequency Stability *	Refer to Ordering Information								ppm
Supply Current									
38.88MHz≦Fo < 160MHz	—		75		—		50		mA
160MHz≦Fo < 250MHz	—		100		—		50		
Output Level									
Output High (Logic "1")	2.275	1.475	—		—		1.6		V
Output Low (Logic "0")	—		1.68	1.095	0.9		—		
Transition Time:Rise/Fall Time+	—		1.0		—		1.0		nSec
Start Time	—		3		—		3		mSec
Tri-State (Input to Pin 2 or Pin 1)									
Output Active	2.5	2	—		2.5	2	—		V
Output in High Impedance State	—		0.5	0.5	—		0.5	0.5	
RMS Phase Jitter (Integrated12KHz~20MHz)	—		1		—		1		pS
Storage Temp. Range	-55		125		-55		125		°C

* Inclusive of calibration @ 25°C, operating temperature range, input voltage variation, load variation, aging, shock, and vibration.
+ Transition times are measured between 20% and 80% waveform.