

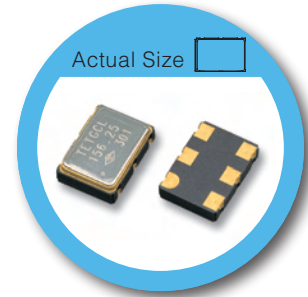
7.0 x 5.0 mm SMD PECL/LVDS Crystal Oscillator – OT Type

FEATURE

- Typical 7.0 x 5.0 x 1.5 mm 6 pads ceramic SMD package.
- Tight symmetry (45 to 55%) available.
- Complementary output.
- Output frequency up to 320 MHz.
- Packing: Tape & Reel, 1000/3000pcs per Reel.

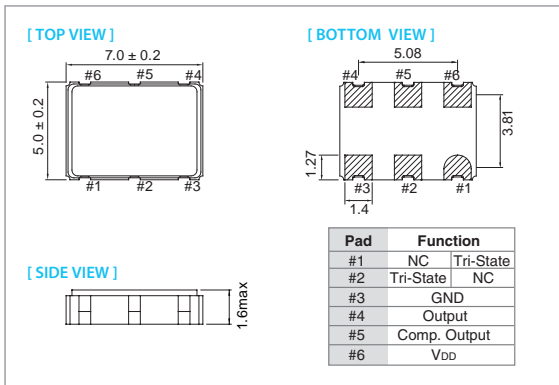
TYPICAL APPLICATION

- 10G-BIT, Ethernet, MAN, SONET
- WLAN/WiMax, xDSL
- Fiber Channel

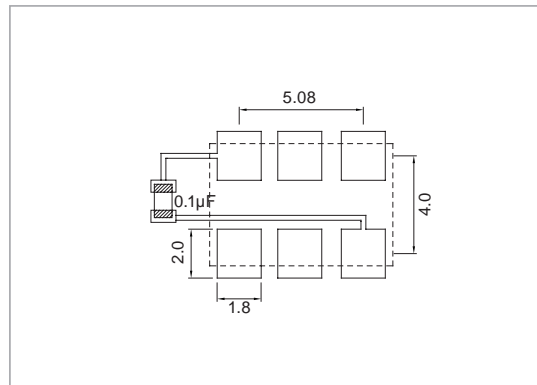


RoHS Compliant Standard

DIMENSION (mm)



SOLDER PAD LAYOUT (mm)



ELECTRICAL SPECIFICATION

Parameter	PECL				LVDS				unit
	3.3 V		2.5 V		3.3 V		2.5 V		
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
Supply Voltage Variation (V _{DD}) 5%	3.135	3.465	2.375	2.625	3.135	3.465	2.375	2.625	V
Frequency Range	19.44	320	19.44	320	19.44	320	19.44	320	MHz
Standard Frequency	77.76, 106.25, 125, 155.52, 156.25, 187.5, 212.5, 312.5								
Supply Current	19.44 MHz ≤ F _o < 160 MHz		160 MHz ≤ F _o < 250 MHz		250 MHz ≤ F _o ≤ 320 MHz				mA
Output Level	Output High (Logic "1")		Output Low (Logic "0")						V
Transition Time: Rise/Fall Time ⁺	–		1.0		–		1.0		nSec
Start Time	–		3		–		3		mSec
Tri-State(Input to Pin 2 or Pin 1)									
Enable	0.7 V _{DD}	–	0.7 V _{DD}	–	0.7 V _{DD}	–	0.7 V _{DD}	–	V
Disable	–	0.3 V _{DD}	–	0.3 V _{DD}	–	0.3 V _{DD}	–	0.3 V _{DD}	
RMS Phase Jitter (Integrated 12 KHz ~ 20 MHz)									
F _o < 80 MHz	–	1.3	–	1.3	–	1.3	–	1.3	pSec
80 MHz ≤ F _o < 125 MHz	–	0.9	–	0.9	–	0.9	–	0.9	
125 MHz ≤ F _o < 150 MHz	–	0.7	–	0.7	–	0.7	–	0.7	
150 MHz ≤ F _o < 200 MHz	–	0.5	–	0.5	–	0.5	–	0.5	
200 MHz ≤ F _o	–	0.3	–	0.3	–	0.3	–	0.3	
Aging	–	±3	–	±3	–	±3	–	±3	ppm
Storage Temp. Range	–55	125	–55	125	–55	125	–55	125	°C

Standard frequencies are frequencies which the crystal has been designed and does not imply a stock position.

+ Transition times are measured between 20% and 80% of V_{DD}.

FREQ. STABILITY vs. TEMP. RANGE

Temp. (°C)	ppm	±25	±50
-10 ~ +60		△	○
-20 ~ +70		△	○
-40 ~ +85		×	○

* ○: Available △: Conditional X: Not available

* Inclusive of calibration @ 25 °C, operating temperature range, input voltage variation, load variation, aging (1st year), shock, and vibration