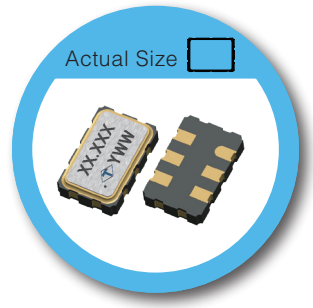
OW-M Type
5.0 x 3.2 mm SMD LVPECL/LVDS Crystal Oscillator



RoHS Compliant

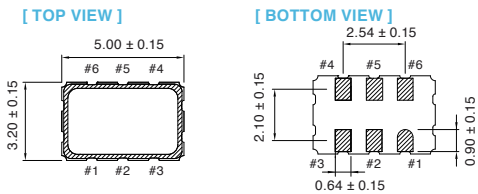
FEATURE

- Industry Standard 5.0 x 3.2 x 1.25 hermetically sealed ceramic package
- Very low phase jitter: 0.6 ps, typ. RMS
- Tri-state enable/disable
- Fast delivery

TYPICAL APPLICATION

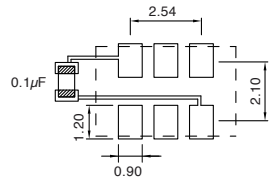
- High-Speed Gigabit Ethernet, Fiber Channel, Storage Area Network, SONET
- Enterprise Server, SAS/SATA
- Microprocessors/DSP/FPGA
- Broadband Access
- Smart Grid

DIMENSION (mm)



Pin#	Function
1	NC/Tri-State
2	NC
3	GND
4	Output
5	Comp. Output
6	VDD

SOLDER PAD LAYOUT (mm)



To ensure optimal oscillator performance, place a by-pass capacitor of 0.1μF as close to the part as possible between Vdd and GND pads.

ELECTRICAL SPECIFICATION

Parameter	LVPECL				LVDS				Unit
	3.3V		2.5V		3.3V		2.5V		
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
Supply Voltage Variation (VDD)	VDD-5%	VDD+5%	VDD-5%	VDD+5%	VDD-5%	VDD+5%	VDD-5%	VDD+5%	V
Frequency Range	10	1500	10	1500	10	1500	10	1500	MHz
Standard Frequency	106.25, 125, 133.33, 150, 155.52, 156.25, 187.5, 212.5, 312.5, 622.08								
Supply Current 10MHz≦Fo≦1500MHz	-	50	-	50	-	50	-	50	mA
Output Level Output High	2.275	-	1.475	-	-	1.6	-	1.6	V
Output Low	-	1.68	-	0.88	0.9	-	0.9	-	
Transition Time : Rise/ Fall Time +	-	1.0	-	1.0	-	1.0	-	1.0	nSec
Start Time	-	10	-	10	-	10	-	10	mSec
Tri-State(Input to Pin 2 or Pin 1)									
Enable (High voltage or floating)	2.31	-	1.75	-	2.31	-	1 .75	-	V
Disable (Low voltage or GND)	-	0.99	-	0.75	-	0.99	-	0.75	
RMS Phase Jitter (Integrated 12 kHz ~ 20 MHz) (At Integer Mode)	-	1.2	-	1.2	-	1.2	-	1.2	pSec
Phase Noise @156.25 MHz 100 Hz	-	-85	-	-85	-	-85	-	-85	dBc/Hz
1 kHz	-	-105	-	-105	-	-105	-	-105	
10 kHz	-	-115	-	-115	-	-115	-	-115	
Aging (@25°C 1st year)	-	±3	-	±3	-	±3	-	±3	ppm
Storage Temp. Range	-55	125	-55	125	-55	125	-55	125	°C

+Transition times are measured between 20% and 80% of VDD

FREQ. STABILITY vs. TEMP. RANGE

Temp. (℃) \ ppm	±25	±50
-10 ~ +60	○	○
-20 ~ +70	○	○
-40 ~ +85	△	○

* ○: Available △:Conditional X: Not available

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

Note: not all combination of options are available. Other specifications may be available upon request.

Specifications subject to change without notice.

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