

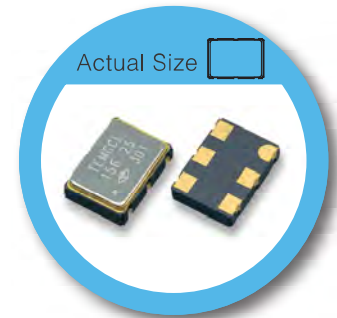
OT-M Type 7.0 x 5.0 mm SMD LVPECL/LVDS Crystal Oscillator

FEATURE

- Typical 7.0 x 5.0 x 1.75 hermetically sealed ceramic package
- Very low phase jitter : < 1 ps(0.6 ps, typ.) RMS
- Any frequency between 10 MHz and 1500 MHz.
- Tri-state enable/disable
- Fast deliver

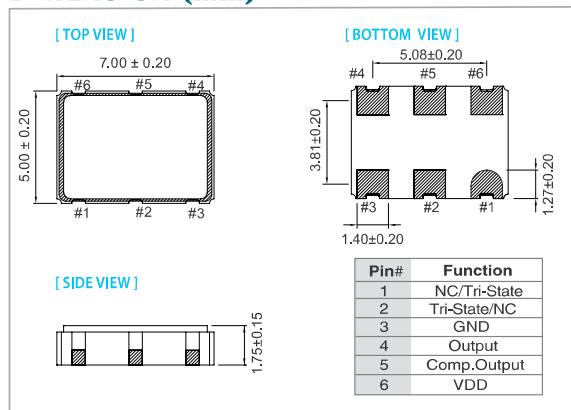
TYPICAL APPLICATION

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

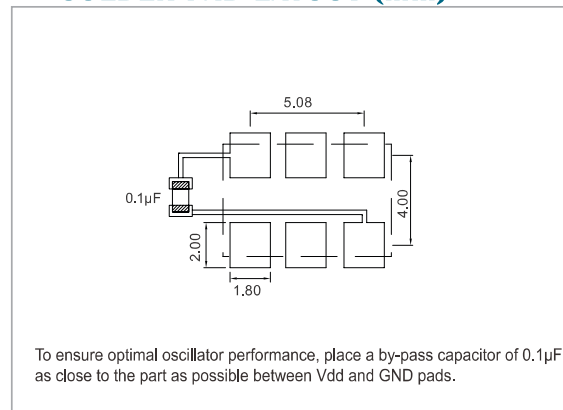


RoHS Compliant

DIMENSION (mm)



SOLDER PAD LAYOUT (mm)



ELECTRICAL SPECIFICATION

Parameter	LVPECL				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 (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	10 MHz ≤ Fo ≤ 1500 MHz		-	50	-	50	-	50	mA	
Output Level	Output High (Logic "1")		2.275	-	1.475	-	-	1.6	-	V
	Output Low (Logic "0")		-	1.68	-	0.88	0.9	-	0.9	
Transition Time: Rise/Fall Time ⁺			-	1.0	-	1.0	-	1.0	-	nSec
Start Time			-	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	-	
RMS Phase Jitter (Integrated 12 KHz ~ 20 MHz) (At Integer Mode)			-	1	-	1	-	1	-	pSec
Phase Noise @ 156.25 MHz	100Hz	-94	-94		-94		-94		dBc/Hz	
	1 kHz	-113	-113		-113		-112			
	10 kHz	-122	-122		-122		-122			
Aging (@ 25°C 1st year)	-	±3	-	±3	-	±3	-	±3	ppm	
Storage Temp. Range	-55		125		-55		125		°C	

+ Transition times are measured between 20% and 80% of Vdd.

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