



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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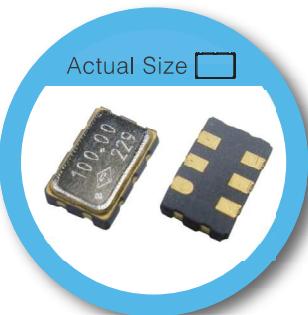
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

OW-M Type

5.0 x 3.2mm SMD LVPECL/LVDS Crystal Oscillator

FEATURE

- Industry Standard 5.0 x 3.2 x 1.25 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 delivery

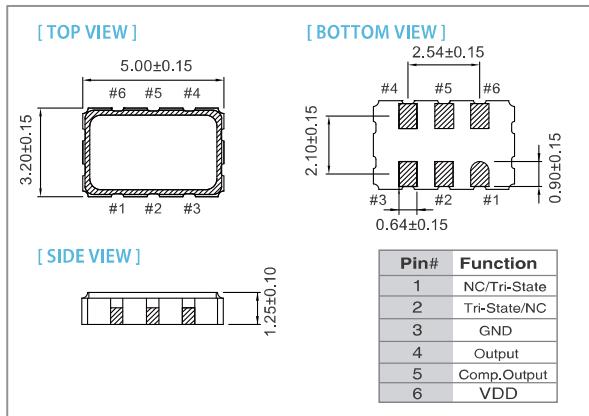

 Actual Size 

RoHS Compliant

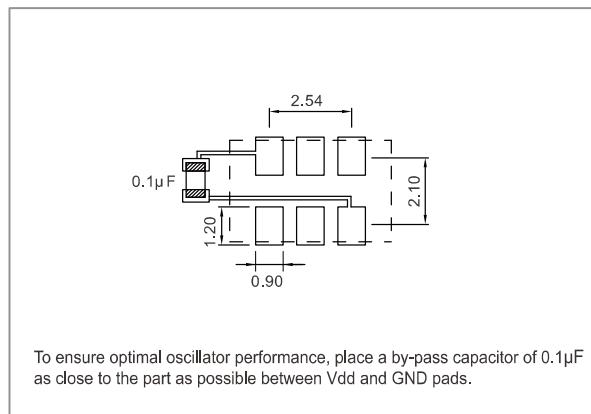
TYPICAL APPLICATION

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

DIMENSION(mm)



SOLDER PAD LAYOUT (mm)



ELECTRICAL SPECIFICATION

Parameter	LVPECL				LVDS				Unit	
	3.3V		2.5V		3.3V		2.5V			
	Min.	Max.	Min.	Max.	VDD-5%	VDD+5%	VDD-5%	VDD+5%		
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 (Logic "1")		1.475		1.6		1.6		V	
	Output Low (Logic "0")		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	μSec	
Tri-State(Input to Pin 2 or Pin 1)	Enable (High voltage or floating) Disable (Low voltage or GND)								V	
	2.31	-	1.75	-	2.31	-	1.75	-		
	-	0.99	-	0.75	-	0.99	-	0.75		
RMS Phase Jitter (Integrated 12 kHz ~ 20 MHz) (At Integer Mode)	-	1.0	-	1.0	-	1.0	-	1.0	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. (°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

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