Product Features

1. Output Frequency： 15~2100 MHz
2. Frequency Stability ： ± 50 ppm
3. Supply Voltage ： 3.3V
4. Operating Temperature：-40~105℃
5. Output Type ： LVPECL
6. Phase Jitter：1ps (Max.) @100MHz , 3.3V
7. RoHS and REACH Compliant , Pb-free , Halogen-free
8. Fast Delivery
9. Wide pull range and good linearity.
10. Industry Standard Package：
    7.0 x 5.0 x 1.3 mm

Application：

- SDH/ SONET, Ethernet, Base Stations, etc.

RoHS COMPLIANT
REACH COMPLIANT
Pb Free
Halogen Free HF

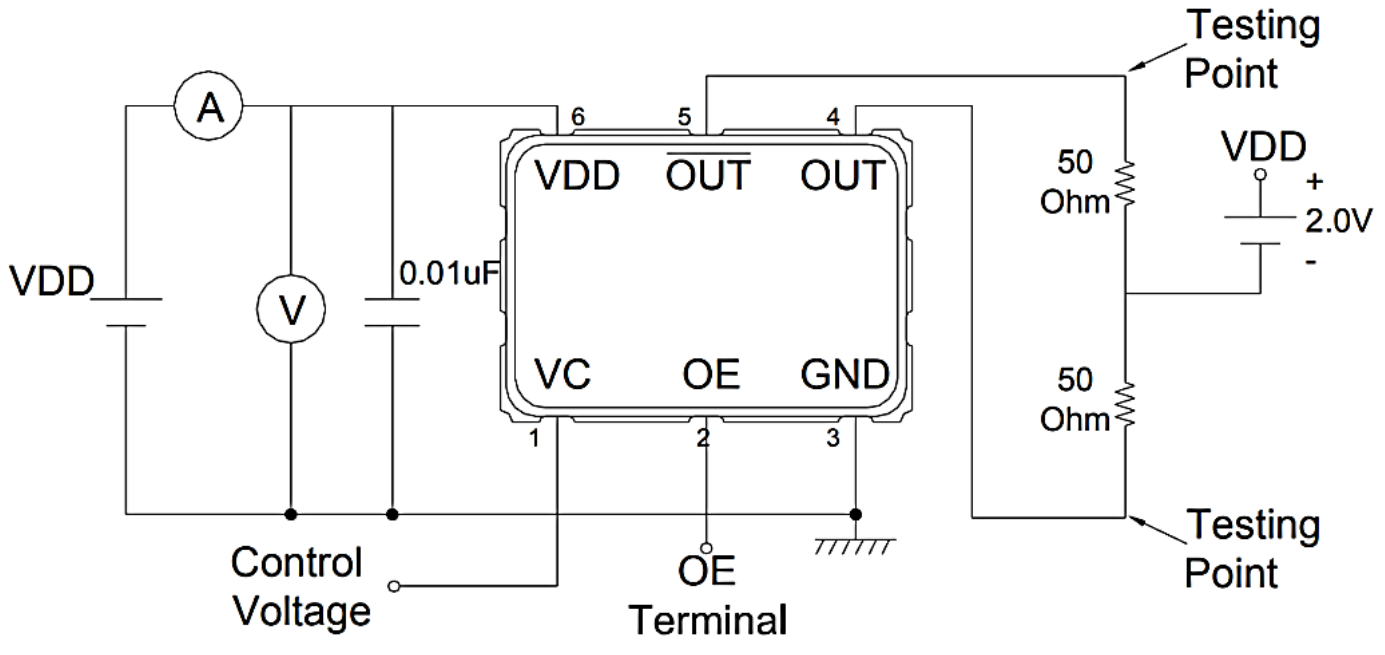
Test condition
Ambient temperature：25 ± 5℃
Relative humidity： 40% ~ 70%

- **Table 1 . Electrical Specifications**

Parameters	Symbol	Min.	Typ.	Max.	Units	Notes
Nominal Frequency	F		15~2100		MHz	
Frequency Tolerance	FT		± 50		ppm	@ -40~105℃ , Note 1
Operating Temperature	Topr	-40	25	105	℃	
Supply Voltage	Vdd		3.3 (± 10%)		V	
Nominal center voltage	-		0.5xVdd		V	
Control Voltage Range	Vc	0.1xVdd	-	0.9xVdd	V	
Output Voltage High / Low	VoH/VoL		90%Vdd / 10%Vdd		V	
Symmetry (Duty ratio)	TH/T	45	~	55	%	
Start-up Time	Tosc	-	-	10	ms	To 90% of Final Amplitude
APR	APR	±50	-	-	ppm	Note2
Linearity	-	-	-	10	%	
Aging	-		± 3		ppm/yr.	1st. Year at 25℃
Current Consumption	Icc	-	93	106	mA	RL=50Ω to VDD-2V
Standby Current	Icc(ST)	-	91	104	uA	OE = Low
Output Voltage High	VoH	Vdd-1.165	-	Vdd-0.8	V	
Output Voltage Low	VoL	Vdd-2.0	-	Vdd-1.555	V	
Output Voltage Range	Vdiff	600	1400	2000	mV	Differential Peak-to-Peak
Rise / Fall Time	Tr / Tf	-	-	0.5	ns	20% ~ 80% Output Swing
Enable Voltage High / Low	-		0.7xVdd / 0.3xVdd		V	Note 3
Output Enable Delay Time	-	-	-	5	ms	
Output Disable Delay Time	-	-	-	200	ns	
RMS Phase Jitter	PJ	-	0.15~0.2	0.25	ps	Integrated from 12KHz ~ 20MHz @ 156.25MHz , 3.3V

Note 1 : Inclusive of frequency tolerance at 25℃ , variation over temperature , supply voltage variation , 10 years aging and vibration.
Note 2 : APR=(Pull Range) - (Frequency tolerance at 25 ℃, variation over temperature, supply voltage variation, and aging).
Note3 : Output will be enable if OE is Logic 1 or open ; Output will be disable if OE is Logic 0.

- **Test Diagram**

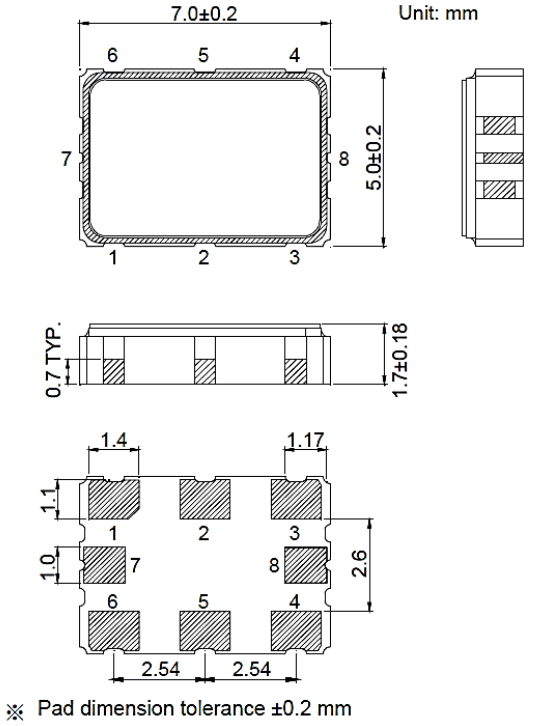


Testing Circuit Note:

1. Above testing circuit covers all the specifications except temperature test & jitter measurement.
2. All the testing equipment are 50Ohm terminal.
3. OE terminal is open connection except OE function test.

- **Dimensions & Footprint (Recommended)**

Unit：mm

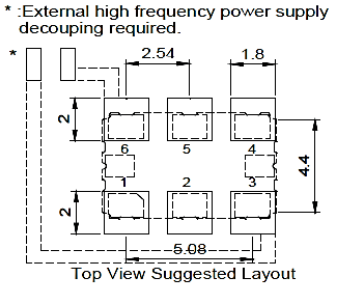


※ Pad dimension tolerance ±0.2 mm

Pin Function:

1. VC
2. OE
3. GND
4. OUT
5. $\overline{\text{OUT}}$
6. VDD
7. NC
8. NC

Land Pattern:



※ Power Supply Decoupling Capacitor is Required.

※ Pad dimension tolerance ±0.2 mm