

Product Features

- Output Frequency: 1~204 MHz
- Frequency Stability: ± 50 ppm
- Supply Voltage: 3.3V
- Operating Temperature: -40~105°C
- Output Type: LVPECL
- Phase Jitter: 1ps (Max.) @100MHz, 3.3V
- RoHS and REACH Compliant, Pb-free, Halogen-free
- Fast Delivery
- Wide pull range and good linearity.
- Industry Standard Package:
7.0 x 5.0 x 1.3 mm

Application:

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



● Table 1 . Electrical Specifications

Test condition
Ambient temperature: $25 \pm 5^\circ\text{C}$
Relative humidity: 40% ~ 70%

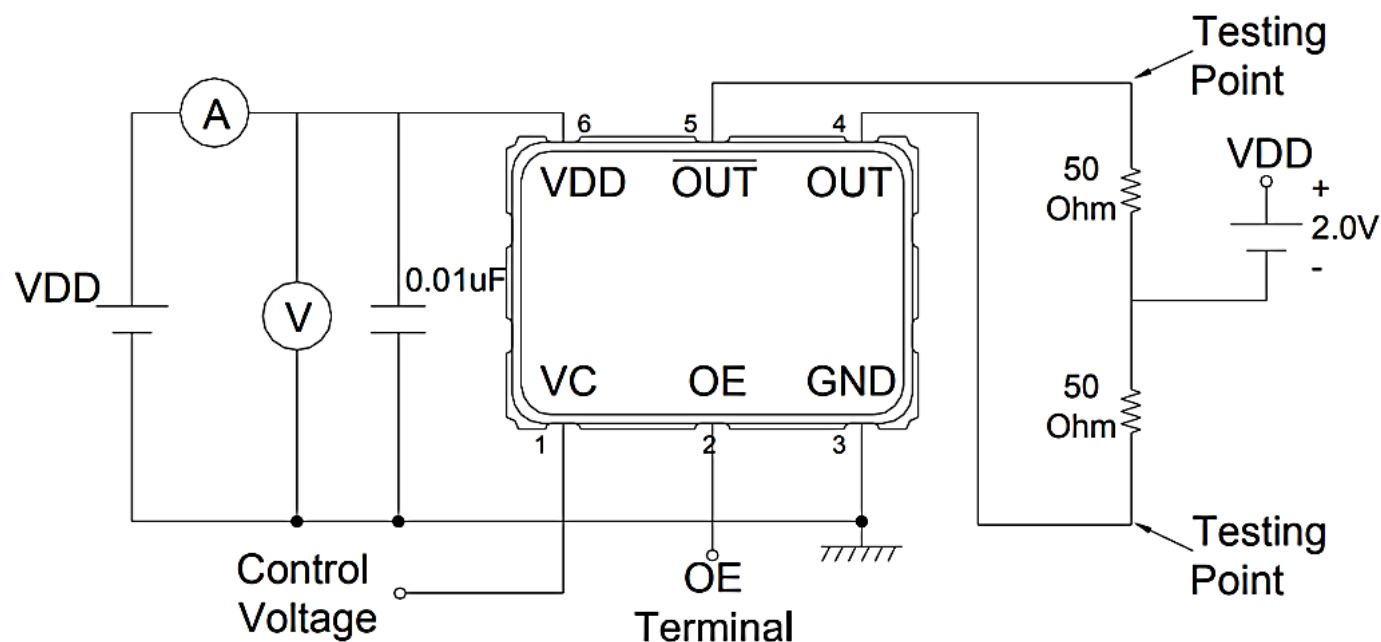
Parameters	Symbol	Min.	Typ.	Max.	Units	Notes
Nominal Frequency	F	1 ~ 204			MHz	
Frequency Tolerance	FT	± 50			ppm	@ -40~105°C, Note 1
Operating Temperature	Topr	-40	25	105	°C	
Supply Voltage	Vdd	3.3 ($\pm 10\%$)			V	
Nominal center voltage	-	0.5xVdd			V	
Control Voltage Range	Vc	0.1xVdd	-	0.9xVdd	V	
APR	APR	± 50	-	-	ppm	Note 2
Linearity	-	-	-	10	%	
Aging	-	± 3			ppm/yr.	1st. Year at 25°C
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	-	0.7xVdd	-	-	V	Note 3, (Logic1)
Enable Voltage Low	-	-	-	0.3xVdd	V	Note 3, (Logic0)
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°C, variation over temperature, supply voltage variation, 10 years aging and vibration.

Note 2 : APR=(Pull Range) - (Frequency tolerance at 25 °C, variation over temperature, supply voltage variation, and aging).

Note 3 : Output will be enable if OE is Logic 1 or open ; Output will be disable if OE is Logic 0.

● Test Diagram

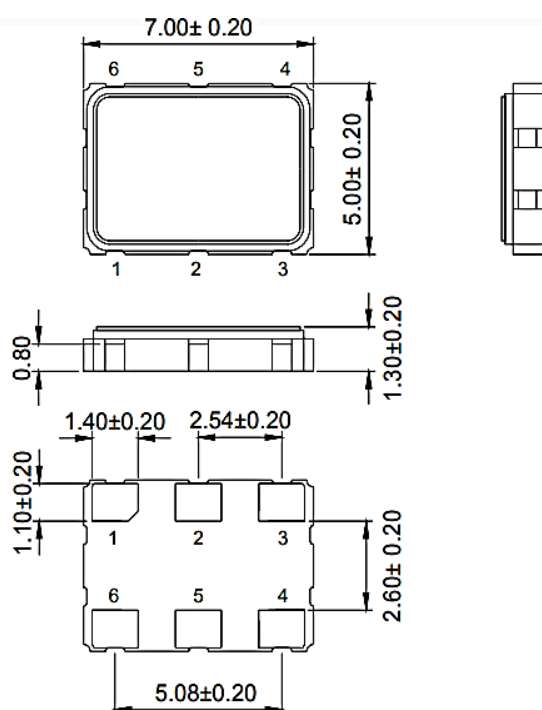


Testing Circuit Note:

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)

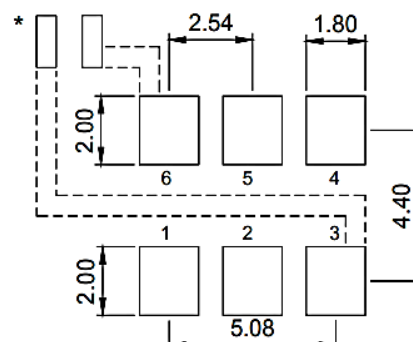
Unit: mm



PAD FUNCTION:

- 1: CONTROL VOLTAGE
- 2: NC
- 3: GND
- 4: OUT
- 5: NC
- 6: VDD

Suggested Layout



* :Power Supply Decoupling Capacitor is Required.