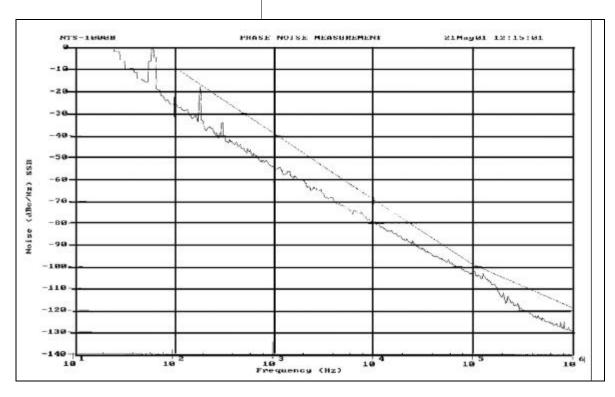


- 40 Gbps (fo = 21233.7 MHz)
- Output Buffer Amplifier
- Phase Noise –80dBc/Hz Typ. at 10 kHz offset

WJ VC2001

DRO for OC–768 An RF evolution for OC-768

OC-768 Clock Oscillator for SONET/SDH Systems The VC2001 provides an ultra-stable, fundamental 21233.7MHz sinewave output signal, suitable for critical timing applications such as those found in SONET/SDH. Typical performance characteristics include; phase noise of –80dBc/Hz at 10kHz offset with +4dBm nominal output power, and a 40MHz tuning range over a –5V to +5V control voltage. The unit requires +12V @ 100mA and –12V @ 25mA bias.



SPECIFICATIONS

		Guaranteed	
Characteristics	Typical	+25°C	0°C to +70°C
Frequency ⁽¹⁾ @ Tune Voltage			
of 0 Volts (MHz)	21233.7	21233.7±4	21233.7±8
Frequency Tuning Range (MHz)	40		
Phase Noise (dBc/Hz)			
1 kHz offset	-54		-39
10 kHz offset	-80		-69
100 kHz offset	-104		-99
1 MHz offset	-130		-119
10 MHz offset	-145		-139
Output Power (dBm)			
Max			+7
Min	+4		+1
Tuning Voltage (Volts)	-5 to +5	-5 to +5	-5 to +5
Modulation Sensitivity (MHz/Volt)	12.5		8-17
Modulation Bandwidth (MHz)			3
Harmonic Suppression (dBc)			
nf ₀	-40		-30
n/2f _O	-50		-40
In-Band Spurious Suppression(dBc)			-65
RF Output VSWR	1.3:1		2.0:1
Frequency Pushing (kHz/Volt)			40
Frequency Pulling ⁽²⁾ (kHz)			200
Bias Current (mA)			
+12V	70	1	100
-12V	6		25

Absolute Maximum Ratings

.695

.005

ă 0

Operating Temperature Storage Temperature DC Voltage

0°C to +85°C -55°C to +125°C 0 to 15 V -12 to +12 V

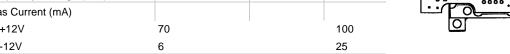
Ø.0635/.0650₩.140±.002 FLAT BOTTOM ✓ Ø.084 X 90°

⊕ Ø .006**Ø** A B C

Ø.130 THRU 1__1 Ø.250 X ▼.192±.002 FAR SID

♦ Ø .006**⊘** A B C

Tune Voltage Weight: 4.0oz

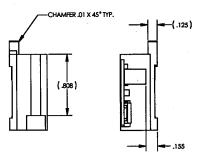


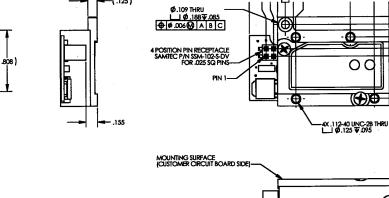
(1) Other frequency options available to support different forward error correction.

(2) Measured looking into a 2.0.1 load mismatch at all phase angles.

Notes:

- 1. Dimensions are in inches
- 2. Tolerances are .xxx \pm 0.15 and .xx \pm 0.02
- Dimensions given specify position #2-56 tapped holes for backside blind rear mount
- 4. Dimensions in parentheses are reference only





HEAT SINK SURFACE (THERMAL GASKET SIDE)

-D-

-C-

2X R.032 FULL RADIUS -▼.140 FLAT BOTTOM ✓ R.042 X 90° ⊕ Ø .006 ② A B C



THE COMMUNICATIONS EDGE™

WJ Communications, Inc 1-866-618-7704 • 408-577-6620 fax • sales@wj.com

The information contained in this document has been carefully checked and is believed to be reliable as of the date of publication. However, WJCI makes no express or implied warranties or representations regarding same and assumes no responsibilities for inaccuracies. WJCI reserves the right to change products and specification, or to discontinue products without notice. For latest information, please contact WJCI sales at 1-800-951-4401.