OUTPUT
Frequency
100 MHz
Level
+13 dBm ±2 dB into 50 ohms
STABILITY
Aging
1 x 10 <sup>-6</sup> per year
after 30 days operating, typical Phase Noise L(f), Static
100 Hz -130 dBc/Hz 1 kHz -158 dBc/Hz
10 kHz -176 dBc/Hz 100 kHz -176 dBc/Hz
Towns or true Ctability
Temperature Stability -7
±2 x 10 <sup>-7</sup> , 0° to +50°C (Ref +25°C)
Harmonics
≤ -30 dBc
Spurious
≤ -90 dBc, excluding power
supply line related spurs
MECHANICAL
Dimensions
2 x 2 x 0.7"
Connectors
SMA(f) and solder pins on side
Packaging
Nickel-plated machined
aluminum case (CV-1A)
POWER REQUIREMENTS
Warm-Up Power
≤ 6 Watts for 5 minutes
Total Power
≤ 3 Watts at +25°C
Supply Voltage
+12 VDC ±5%
ADJUSTMENT
Mechanical Tuning
±4 x 10 <sup>-6</sup>
Electrical Tuning
±2 x 10 <sup>-7</sup> , ±5 VDC
Negative slope

CRYSTAL				
Туре				
100 MHz SC-Cut (low-g)				
Acceleration Sensitivity				
≤ 3 x 10 <sup>-10</sup> /g per axis, typical				

## ENVIRONMENTAL Operating Temperature 0° to +50°C

## Storage Temperature -40° to +85°C

## OTHER Label

Use conventional label with the following information: 501-24069 (Current Rev.) 100 MHz Citrine +12 VDC Serial # - Date Code

## **Test Data**

Output Level
Phase Noise, Static
Temperature Stability
Harmonics, Spurious
Power – Warm-up and Total
Tuning – MT and ET

REV	DATE	REVISION RECORD	DWN	AUTH
-	08-03-11	Initial Release	PAC	
Α	12-03-12	Updated Drawing	PAC	



