OUTPUT Frequency 100 MHz Level +13 dBm ±2 dB into 50 ohms **STABILITY** Aging 1×10^{-6} 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 Phase Noise L(f), Dynamic, typical -72 dBc/Hz 10 Hz 50 Hz -73 dBc/Hz 100 Hz -100 dBc/Hz 300 Hz -130 dBc/Hz 1 kHz -153 dBc/Hz 2 kHz -160 dBc/Hz **Temperature Stability** $\pm 2 \times 10^{-7}$. 0° to +50°C (Ref +25°C) Harmonics ≤ -30 dBc Spurious ≤ -90 dBc, excluding power supply line related spurs MECHANICAL Dimensions 2.8" x 3.0" x 1.15" Connectors SMA(f) and solder pins on side Packaging Nickel-plated machined aluminum case – (CVI-1) POWER REQUIREMENTS Warm-Up Power \leq 6 Watts for 5 minutes **Total Power** ≤ 3 Watts at +25°C Supply Voltage +15 VDC ±5%

ADJUSTMENT Mechanical Tuning ±4 x 10⁻⁶ **Electrical Tuning** $\pm 5 \times 10^{-7}$ min. ± 5 VDC Negative slope CRYSTAL Type 100 MHz SC-cut (low-g) **Acceleration Sensitivity** $\leq 3 \times 10^{-10}$ /g per axis, typical **ENVIRONMENTAL Operating Temperature** 0° to +50°C Storage Temperature -40° to +85°C Vibration Level $0.01 \text{ g}^2/\text{Hz}$ 10 Hz to 2 kHz Resonance (Internal Mount Natural Frequency) ~50 Hz, typical OTHER Label Use conventional label with the following information: 501-24942 (Current Rev.) 100 MHz Citrine +15 VDC Serial # - Date Code Test Data Output Level Phase Noise, Static and Dynamic **Temperature Stability** Harmonics, Spurious Power - Warm-up and Total Tuning – MT and ET

