OUTPUT A Frequency 2 GHz Level +13 dBm ±2 dB into 50 ohms **OUTPUT B** Frequency 4 GHz Level +13 dBm ±2 dB into 50 ohms **STABILITY Aging** 1 x 10⁻⁶ first year after 30 days operating, typical 5 x 10⁻⁷ second year, typical 3 x 10⁻⁷ per year thereafter, typical Phase Noise L(f), dBc/Hz, typical 2 GHz 4 GHz -96 100 Hz -102 -129 -123 1 kHz 10 kHz -146 -140 100 kHz -147 -141 **Temperature Stability** $\pm 5 \times 10^{-7}$, 0 to $+50^{\circ}$ C (Ref. $+25^{\circ}$ C) **Harmonics** < -25 dBc **Sub-Harmonics** ≤ -60 dBc **Spurious** ≤ -80 dBc, excluding power supply line related spurs **MECHANICAL Dimensions** 4.16 x 4 x 1" **Connectors** RF Outputs: SMA(f) Power, ET: Feed Thru Terminals **GND: Ground Turret Packaging** Nickel-plated machined aluminum housing - J3-35 Mounting Threaded inserts on base. #2-56, 6 places

POWER REQUIREMENTS
Warm-Up Power

≤ 14 Watts for 5 minutes

Total Power

≤ 10.5 Watts at +25°C

Supply Voltage

+15 VDC ±5%

ADJUSTMENT

Mechanical Tuning

 $\pm 4 \times 10^{-6}$

Electrical Tuning

±5 x 10⁻⁷, ±5 VDC

Negative Slope

CRYSTAL

Type

100 MHz SC-cut (x40)

OTHER

Label

Use conventional label with the following information: 501-31218 (Current Rev.) 2G/4G MXO-FR +15 VDC Serial # - Date Code

(Mark connectors with function)

Test Data

- Output Level
- Phase Noise
- Temperature Stability
- Harmonics, Subs, Spurious
- Power Warm-up and Total

REV	DATE	REVISION RECORD	DWN	AUTH
•	09-28-17	Initial Release	CB	

J3-35 MXO Connections		
Connector	Function	
1	Supply Voltage	
2	Ground, Case	
3	Electrical Tuning	
4	RF Output B	
5	RF Output A	
	-	



