OUTPUT Frequency 500 MHz Level +13 dBm ±2 dB into 50 ohms **STABILITY** Aging 1 x 10<sup>-6</sup> first year after 30 days operating, typical  $5 \times 10^{-7}$  second year, typical  $3 \times 10^{-7}$  per year thereafter, typical Phase Noise L(f), typical 100 Hz -115 dBc/Hz 1 KHz -143 dBc/Hz 10 KHz -159 dBc/Hz 100 KHz -160 dBc/Hz **Temperature Stability**  $\pm 5 \times 10^{-7}$ , 0° to  $\pm 50^{\circ}$ C (Ref  $\pm 25^{\circ}$ C) Harmonics ≤ -25 dBc Sub-Harmonics ≤ -70 dBc **Spurious** ≤ -80 dBc, excluding power supply line related spurs MECHANICAL Dimensions 2.25 x 4 x 1" Connectors SMA(f) and solder pins Packaging Nickel-plated machined aluminum housing - J1 Mounting Threaded inserts on base, #2-56, 6 places POWER REQUIREMENTS Warm-Up Power ≤ 8.5 Watts for 5 minutes **Total Power** ≤ 5 Watts at +25°C Supply Voltage +15 VDC ±5%

ADJUSTMENT

**Mechanical Tuning** ±4 x 10<sup>-6</sup>

**Electrical Tuning** 

CRYSTAL

Type

OTHER

Label

**Test Data** 

	KEV.	DATE		REVISION RECORD		DWIN	AUTH
JUSTMENT	-	06-22-11	Initial Rele	ase		PAC	JR
echanical Tuning	<b> </b>		<u> </u>				
$\pm 4 \times 10^{-6}$		-					
ectrical Tuning							
$\pm 5 \times 10^{-7}, \pm 5 \text{ VDC}$				11 MXO Connection	S		
Negative slope			Con	nector Function			
YSTAL				1 Supply Volt	age		
				2 Ground, Ca 3 Electrical T			
100 MHz SC-cut (x5) T <b>HER</b>				4 RF Output			
bel							
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500 MHz MXO-FR			o —	(Mechanical Tuning)			
+15 VDC				1 1 1	1		
Serial # - Date Code (Mark connectors with function)			0 0.25	0.55 0.90 1.70	2.25		
st Data			r <del>Å</del> n				
Output Level			915 J				
Phase Noise		5.	515				
Temperature Stability							
Harmonics, Subs, Spurious							
Power – Warm-up and Total Tuning – MT and ET							
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				Threaded Inserts, #2-	56,		
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	50	0 MHz N	lultiplie	ed Crystal C	scillator	(MXO-I	FR)
	P/N:		Rev:	Date:	Drawn:	Ref:	
	<b>50</b> ′	1-24145	-	06-22-11			
	Tolerances		0.XX Dec:	0.XXX Dec:	FSCM:		
	(except as Dimension	noted) is are in inches	±0.03	0" ±0.010"	62821	Page <b>1</b> of	1
	Dimension	s are in inches	$\pm 0.03$	10.010	02021	3	

**REVISION RECORD** 

DWN AUTH

REV

DATE