OUTPUTS							
Output	Frequency	Level (into 50Ω)					
Δ	10 MHz	+13 ±1 5 dBm					
В	100 MHz	+20 ±1.5 dBm					
VSWR							
STABILITY							
Aging							
1×10^{-7}	first vear						
		typical					
	OutputFrequencyLevel (into 50Ω)A10 MHz $+13 \pm 1.5 dBm$ B100 MHz $+20 \pm 1.5 dBm$ VSWR $< 1.5:1$, typicalSTABILITYAging 1×10^{-7} first year after 30 days operating, typical 5×10^{-8} second year, typical 3×10^{-8} per year thereafter, typical 3×10^{-8} per year thereafter, typical 3×10^{-8} per year thereafter, typical $10 MHz$ 1 Hz-110-8610 Hz-140-116100 Hz-162-137300 Hz-167-133710 KHz-174-172100 kHz-174-17410 HHz-174-17510 MHz-174-17510 MHz-174-17510 KHz-174-17510 MHz-174-175210 MHz-174-175210 MHz-174-175PmepratureStability $\pm 5 \times 10^{-8}$, 0 to +50°C (Ref. +25°C)Harmonics $\leq -25 dBC$ Supply line related spursPhase Lock AlarmTTL Locked: +3.5 VDC to +5.2 VDC (Hi) Out-of-Lock: +0.8 VDC max (Lo)Phase Lock Voltage Monitor Voltage monitor pin suppliedMECHANICALDimensions 5.56 x 4 x 1"S.56 x 4 x 1"Connectors RF Outputs: SMA(f) Power, Monitoring: Feed Thru Terminals GND: Ground TurretPackaging Nickel-plated machined						
	DutputFrequencyLevel (into 50Q)A10 MHz $+13 \pm 1.5 dBm$ B100 MHz $+20 \pm 1.5 dBm$ SWR< 1.5:1, typical						
3 x 10 °	per year thereaf	ter, typical					
Phase Nois	e L(f), dBc/Hz						
	10 MHz	100 MHz					
1 Hz	-110	-86					
10 Hz	-140	-116					
100 Hz	-162	-137					
300 Hz	-167	-137					
	· ⁸ 0 to 1 5000 (5						
	, 0 to +50°C (F	(er. +25°C)					
	_						
	BC						
≤ -80 dBc, excluding power supply line related spurs							
	Alarm						
	< 1.5:1, typical STABILITY Aging 1 × 10 ⁻⁷ first year after 30 days operating, typical 5 × 10 ⁻⁸ second year, typical 3 × 10 ⁻⁸ per year thereafter, typical Phase Noise L(f), dBc/Hz 1 Hz -110 -86 10 Hz -140 -116 100 Hz -162 -137 300 Hz -167 -137 1 kHz -172 -151 10 kHz -174 -172 10 kHz -174 -175 ≥10 MHz -174 -175 ≥10 MHz -174 -175 Temperature Stability $\pm 5 \times 10^{-8}$, 0 to +50°C (Ref. +25°C) Harmonics ≤ -25 dBc Sub-Harmonics ≤ -70 dBc PLL Reference Products ≤ -70 dBc Spurious ≤ -80 dBc, excluding power supply line related spurs Phase Lock Alarm TTL Locked: +3.5 VDC to +5.2 VDC (Hi) Out-of-Lock: +0.8 VDC max (Lo) Phase Lock Voltage Monitor Voltage monitor pin supplied MECHANICAL Dimensions 5.56 × 4 × 1" Connectors RF Outputs: SMA(f) Power, Monitoring: Feed Thru Terminals GND: Ground Turret Packaging Nickel-plated machined						
Locked: +3.5 VDC to +5.2 VDC (Hi)							
Out-of-Lock: +0.8 VDC max (Lo)							
 ≤ -25 dBc Sub-Harmonics ≤ -70 dBc PLL Reference Products ≤ -70 dBc Spurious ≤ -80 dBc, excluding power supply line related spurs Phase Lock Alarm TTL Locked: +3.5 VDC to +5.2 VDC (Hi) Out-of-Lock: +0.8 VDC max (Lo) Phase Lock Voltage Monitor Voltage monitor pin supplied 							
		lied					
MECHANI	CAL						
Dimension	IS						
5.56 x 4	x 1″						
Connector	S						
RF Outputs: SMA(f)							
		ΡΜΧ					
	in nousing – JI						
	-110 -86 -140 -116 -162 -137 -167 -137 -172 -151 -174 -172 -174 -174 -174 -175 -174 -175 -175 -174 -175 -175 -174 -175 -175 -175 -174 -175 -175 -175 -175 -175 -175 -175 -175						
		SE,					
#2-56,	9 places						

POWER REQUIREMENTS		REV	DATE		REVISION RECORD		DWN	AUTH	
Warm-Up Power		-	04-11-13	Initial Releas	se		Liz		
\leq 17 Watts for 5 minutes									
Total Power									
≤ 10 Watts at +25°C									
Supply Voltage									
+15 VDC ±5%									
ADJUSTMENT									
Mechanical Tuning (Internal 10 MHz)			J1F	MX MXO Conne	ections				
$\pm 1 \times 10^{-6}$			Connector	Function					
			1	Supply Volta	ge				
Loop BW (Internal 100 MHz PLL)			2	Ground, Cas RF Output B					
Target Bandwidth: ~250 Hz			5	Phase Lock \	/oltage				
Type 2 Loop			6 8	Phase Lock / RF Output A					
CRYSTAL			Ŭ	ni ouquen					
10 MHz SC-cut	1.00 — _[<u> </u>			0-0			
100 MHz SC-cut	0.75 —	0 <u>0</u> 0)	0 5 6	1 💿	66			
	0.44 —	0		5 0	2 🔘	4			
Operating Temperature	o [
0 to +50°C Storage Temperature									
-50 to +85°C	0	0.65		2.49	3.55	5.01			
Relative Humidity						_, _,		_	
Up to 65%, non-condensing, operating	4.00 — д		7		<u> </u>	R	_	дAA	
OTHER	3.915	X		Ø		\sim			
Label	[readed Inserts,				ſ		
Use conventional label with the		9 p	-56, blaces, 0.190" deep				,		
following information:									
500-26745 (Current Rev.)							,		
10M/100M MXO-PLMX									
+15 VDC		5				_	2		
Serial # - Date Code	F	2			0	0	5		
(Mark connectors with function)	1.750 —				0				
Test Data							,		
- Output Level									
- Phase Noise							•		
- Temperature Stability			Mechanical tuni	ng					
- Harmonics, Subs, Products, Spurs	0.085 ¬	\sim	access	0		_	<u>ا</u>		
- Power – Warm-up and Total	0 _ 0			<u>0</u>	1		L		
-	0	ы Б Г Г Г		- -	رت ا	 8.9			
		0.085 0.395		2.275	3.375	5.470 5.56		0.76	
			•		A .		_		
Wenzel Associates, Inc. Austin, Texas									
		P/N:	1-26745	Rev:	Date: 04-11-	Drawn:	F	ef: 26045	
		Tolerances: (except as r	noted)	0.XX Dec:	0.XXX Dec:		1 Page 1	1	
		Dimensions	are in inches	±0.030'	" ±0.01	0" 6282	Page I	01 1	
		1							