OUTPUT	ADJUSTMENT	
Frequency	Electrical Tuning	
100 MHz	±4 x 10 ⁻⁶ , 0 to +10	VDC
Level	Negative slope	
+10 dBm ±2 dB into 50 ±5 ohms	Oven Monitor	
STABILITY		2 VDC) when oven
Frequency Accuracy	temp is >0 ℃, typic	
To within $\pm 1 \times 10^{-6}$ at time of	TTL Low (0 to 0.8 '	
shipment at +25℃	temp is <0 °C, typic	
Aging	CRYSTAL	
1 x 10 ⁻⁶ per year	Туре	
	100 MHz, low-g, 26	e-10/g per axis
after 30 days operating, typical	ENVIRONMENTAL	a verg per enne
Phase Noise L(f), Static	Temperature	
100 Hz -130 dBc/Hz	Operating: -40° to	+85℃
1 KHZ -158 QBC/HZ	Non-Operating: -5	
1 kHz -158 dBc/Hz 10 kHz -172 dBc/Hz 100 kHz -174 dBc/Hz	Vibration Isolation	
	Internal shock-mo	ounts
Temperature Stability	40 Hz Resonance	
±1 x 10 ⁻⁶ , -40° to +70℃ (Ref +25℃)	Vibration Test Profile	
±2 x 10 ⁻⁶ ,+70° to +85℃ (Ref +25℃)	30 Hz	0.02 g ² /Hz
Harmonics	150 Hz	0.02 g2/Hz
-20 dBc	151 Hz	0.05 g ² /Hz
Non-Harmonic Spurious	400 Hz	$0.05 g^2/Hz$
-80 dBc, excluding power	401 Hz	$0.02 g^2/Hz$
supply line related spurs	1000 Hz 1001 Hz	0.02 g ² /Hz 0.0005 g ² /Hz
MECHANICAL	2000 Hz	0.0005 g /Hz 0.0005 g ² /Hz
Dimensions	Shock - Operating	0.0003 g /112
2.61 x 2.40 x 0.85"		e during 10g, 11 ms
(See drawing Page 2)		ch axis, with degraded
Connectors	performance.	maxio, with dogradod
SMA(f) and solder pins on side	Shock – Non-Operati	ina
Packaging		e 20g, 11 ms sawtooth
Nickel-plated machined	pulse each axis	2 2 2 g,
aluminum case	pailed dater and	
Weight, typical	OTHER	
0.2 lbs	Test Data	
Mounting	Output Level	
Tabs on three corners		cy (at time of shipment)
POWER REQUIREMENTS	Phase Noise – Sta	
Warm-Up Power	axes)	, (-
≤ 3 Watts for 2 minutes at -40°C	Temperature Stabi	lity
Total Power	Harmonics, Spurior	
≤ 1.8 Watts at -40 °C	Power – Warm-up	
Oumply Vallana		

Supply Voltage +12 VDC ±5%

REV	DATE	REVISION RECORD	DWN	AUTH
-	07-02-15	Initial Release	Liz	GP
•				

Wenze	el Associates, Inc.
Title: 100 MHz-SC Vibra	ation Isolated Crystal Osc

100 MHz-SC Vibration Isolated Crystal Oscillator Rev: Date: Drawn: Ref:

501-29204		-	0	7-02-15			23939b
Tolerances: (except as noted) Dimensions are in inches	-	X Dec:	0"	0.XXX Dec: ±0.010"	FSCM: 62821	P	Page 1 of 2

100 MHz-SC Vibration Isolated Crystal Oscillator 100			REV	DATE		REVISION RECORD		DWN	AUTH
2.40 2.40 3.40			-	07-02-15	Initial Release	ı		Liz	GP
2.30 2.40 30.27 30.518 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.2									
2.30 3x 5.129 THRU Wenzel Associates, Inc. Austin. Toxas Time: 100 MHz-SC Vibration Isolated Crystal Oscillator This isolated Crystal Oscillator									
2.30 3x 5.129 THRU Wenzel Associates, Inc. Austin. Toxas Time: 100 MHz-SC Vibration Isolated Crystal Oscillator This isolated Crystal Oscillator									
2.30 3x 5.129 THRU Wenzel Associates, Inc. Austin. Toxas Time: 100 MHz-SC Vibration Isolated Crystal Oscillator This isolated Crystal Oscillator									
Wenzel Associates, Inc. Austin, Texas Title: 100 MHz-SC Vibration Isolated Crystal Oscillator P/N: 501-29204	2.30 2.30 2.30 30 2.200 TBI © T	2.425 2.61	3X .73 3X .61	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	(a)	(a)	(4) (4) (2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	085 - -	
Tolerances: 0.XXX Dec: FSCM:	2X 0.72 TB2 TB2 JI	3	Title: 100 MHz-SC Vibration Isolated Crystal Oscillator P/N: Rev: Date: Drawn: Ref:						
			Tolerances (except as	s: noted)	0.XX Dec:	0.XXX Dec:	FSCM: 62821	 	