OUTPUTS

No. of Outputs	Frequency	Level (into 50Ω)
1	4.0 GHz	+13 ±2 dBm
1	8.0 GHz	+13 ±2 dBm
1	12.0 GHz	+13 +2 dBm

STABILITY

Aging

5 x 10⁻⁷ per year

after 30 days operating, typical

Warm-up Time

1 hour, maximum; 15 minutes, typical (@ +25°C)

Phase Noise L(f), dBc/Hz

	4 GHz	8 GHz	12 GHz
10 Hz	-74	-69	-67
100 Hz	-105	-101	-97
1 kHz	-130	-122	-118
10 kHz	-145	-137	-133
100 kHz	-146	-139	-135
1 MHz	-146	-140	-136
10 MHz	-146	-140	-136

Harmonics

≤ -25 dBc

Sub-Harmonics

≤ -60 dBc

Spurious

≤ -80 dBc, excluding power supply line related spurs

CRYSTAL

Type

100 MHz SC-cut

MIXER

Marki M2B-0218

ENVIRONMENT

Operating Temperature

Lab Environment, +15°C to +35°C

Storage Temperature

-20°C to +70°C

ADJUSTMENT

Electrical Tuning Input

±3 PPM minimum, 0 to +10 Volts

REV	DATE	REVISION RECORD	DWN	AUTH
-	07-14-17	Initial Release	PAC	

POWER REQUIREMENTS

External AC/DC Power Adapter Provided

AC Input to Adapter: 100 to 240 VAC, 50/60 Hz

3 pole AC inlet IEC320-C14

DC Output from Adapter: +18 VDC

DC Maximum Load: 3.33 Amp, max

CE/UL Certified

DC Power Cord (6 ft.)

AC Power Cord (6 ft.)

Supply Voltage to Rear of Chassis

+18 VDC ±3%

(Internally filtered and regulated)

Current Draw

3 Amps, max

MECHANICAL

Dimensions

Wenzel G300-F L021716091,

Protocase L021716091-47491-1

8 x 12 x 1.72"

Connectors

RF Outputs: SMA(f), front panel

Mixer Inputs/Output: SMA(f), front panel Electrical Tuning: BNC(f), front panel

DC Supply: Center Positive Barrel Connector, rear panel – J1

Front Panel

Painted Black with White Lettering

Monitoring

LED provided on front panel for:

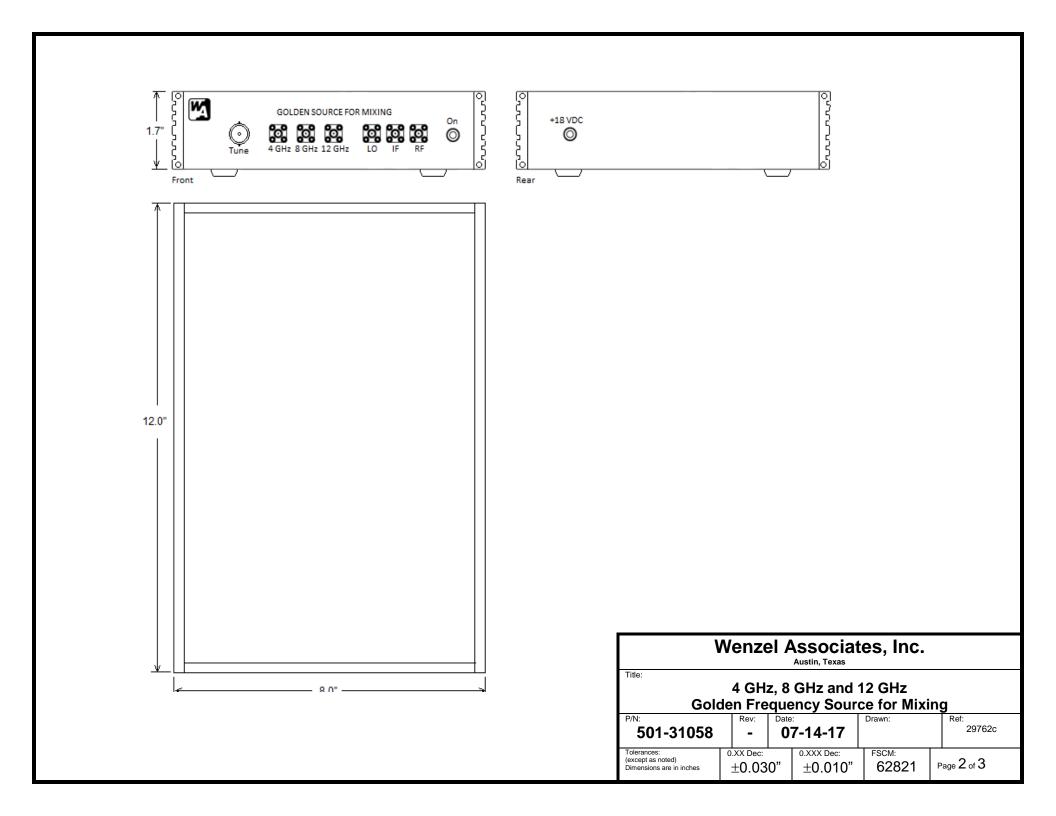
- POWER (DC Input Power - Green = ON)

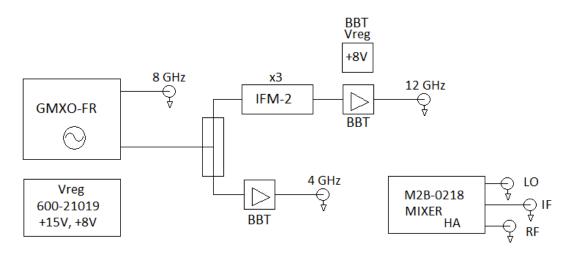
OTHER

Test Data

Output Levels, Phase Noise, Harmonics, Subs. Spurious

Wenzel Associates, Inc. Austin, Texas Title: 4 GHz. 8 GHz and 12 GHz **Golden Frequency Source for Mixing** Drawn: Rev: Date: 29762c 501-31058 07-14-17 Tolerances: 0.XXX Dec: FSCM: 0.XX Dec: (except as noted) Page 1 of 3 62821 ± 0.030 " ± 0.010 "





4 GHz				8 GHz				12 GHZ			
Source	Input	Sum	Diff	Source	Input	Sum	Diff	Source	Input	Sum	Diff
4	7	11	3	8	7	15	1	12	7	19	5
4	8	12	4	8	8	16	0	12	8	20	4
4	9	13	5	8	9	17	1	12	9	21	3
4	10	14	6	8	10	18	2	12	10	22	2
4	11	15	7	8	11	19	3	12	11	23	1
4	12	16	8	8	12	20	4	12	12	24	0
4	13	17	9	8	13	21	5	12	13	25	1
4	14	18	10	8	14	22	6	12	14	26	2
4	15	19	11	8	15	23	7	12	2 15	27	3
4	16	20	12	8	16	24	8	12	2 16	28	4
4	17	21	13	8	17	25	9	12	2 17	29	5
4	18	22	14	8	18	26	10	12	2 18	30	6

Wenzel Associates, Inc. Austin, Texas							
4 GHz, 8 GHz and 12 GHz Golden Frequency Source for Mixing							
^{P/N:} 501-31058	Rev:	Date O	7-14-17	Drawn:	Ref: 29762c		
Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.030"		0.XXX Dec: ±0.010"	FSCM: 62821	Page 3 of 3		