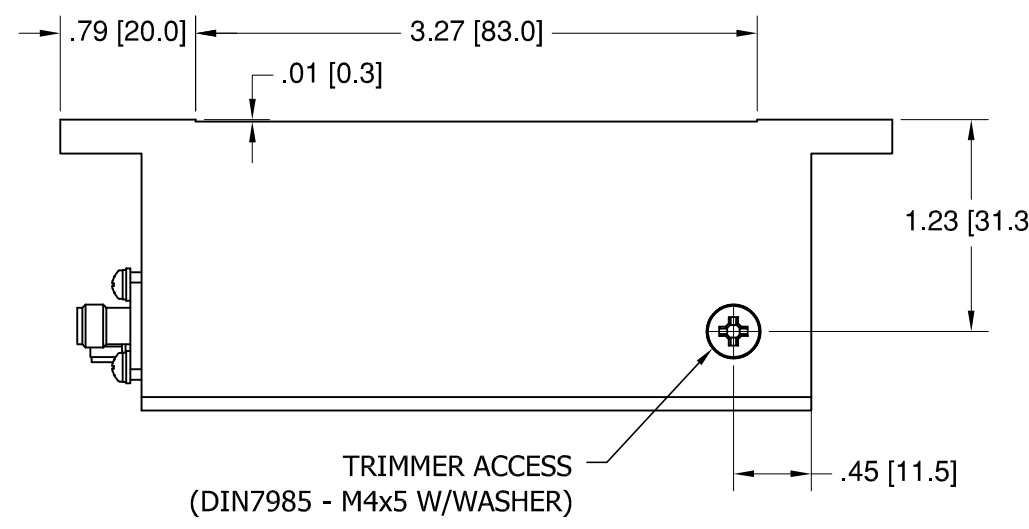


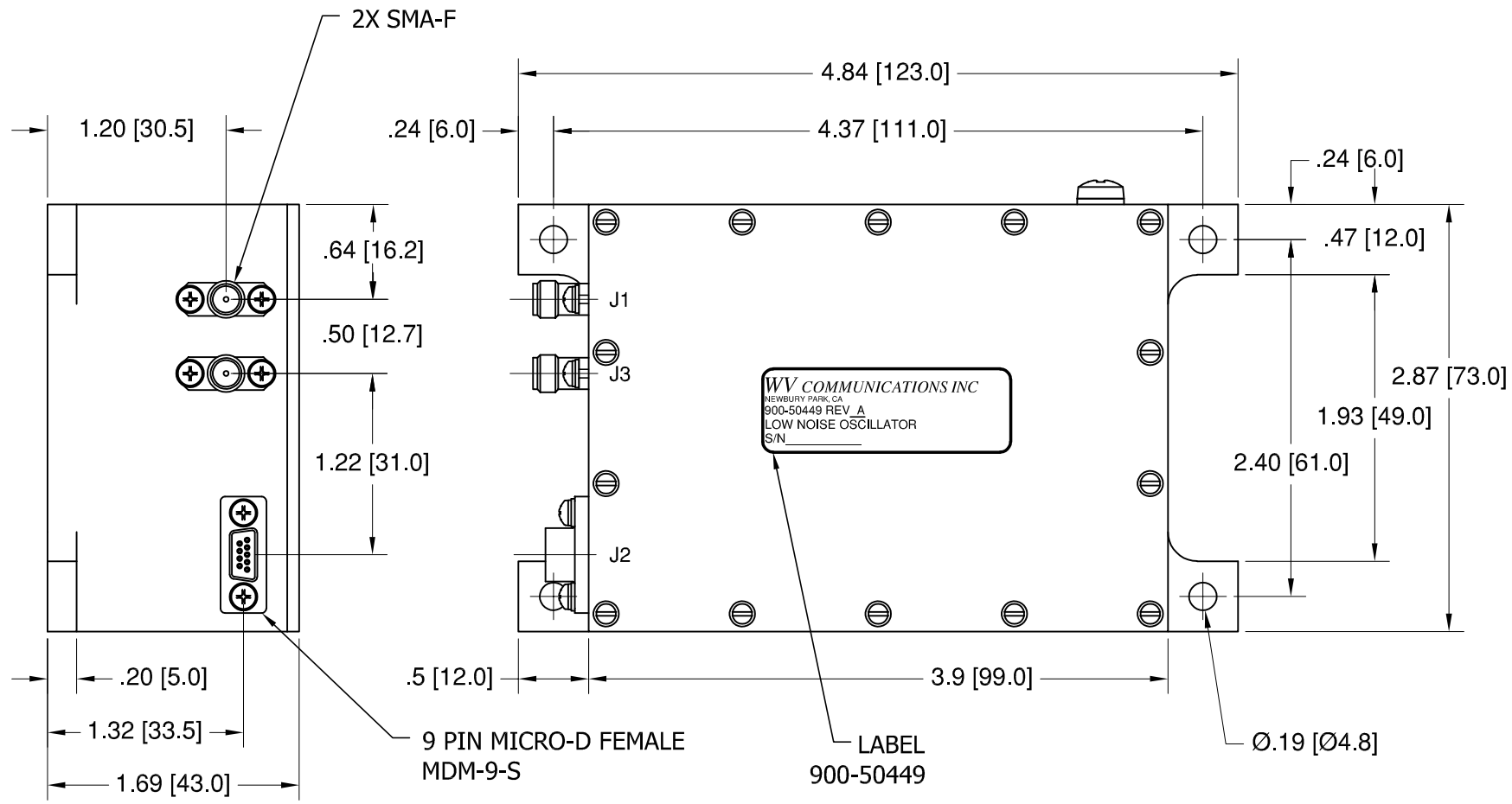
**** PROPRIETARY DATA ****
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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
A		RELEASED	2/14/17	TT



ENVIRONMENT	
TEMPERATURE :	STORAGE: [-40, +85] °C
	OPERATING: [-20, +75] °C
	OPERABLE: [-40, +85] °C
LIFE PROFILE :	15 YEARS
	2Hz to 4Hz: 0.30 g ² /Hz
	10Hz to 40Hz: 0.06 g ² /Hz
	62Hz: 1.25 g ² /Hz
	100Hz to 300Hz: 0.30 g ² /Hz
SHOCK :	40 g / 18 ms 18 shocks Half Sine
	Sea Level to 16,000 ft
ALTITUDE :	OPERATING: Sea Level to 16,000 ft
	TRANSPORT: Sea Level to 45,000 ft
HUMIDITY :	Up to 98%, relative with condensation
	MIL-STD 810F, Method 507.4
SALT FOG :	5% Salt concentration / 48 hours
	MIL-STD 810F, Method 509.4
FUNGUS :	Fungi resistance materials
	MIL-STD 810F, Method 508.4

ELECTRICAL CHARACTERISTICS			
NOMINAL OUTPUT FREQUENCY:	F _n	120 MHz	
OVERALL FREQUENCY STABILITY:	< ± 4.10-8 (incl. temperature, aging 1 year, retrace)		
FREQUENCY STABILITY vs TEMPERATURE:	[-20, +75] °C	< ± 2.10-8	
	[-40, +85] °C	< ± 2.10-7	
FREQUENCY STABILITY vs SUPPLY VOLTAGE:	(+15 V ± 5%)	< ± 5.10-9	
FREQUENCY STABILITY vs LOAD:	(50Ω ± 10%)	< ± 5.10-9	
LONG TERM STABILITY:	FIRST YEAR	< ± 2.10-8	
	NEXT YEARS	< ± 1.5.10-8	
PHASE NOISE:		static	under vibration [1]
	10 Hz	< -85 dBc/Hz	< -55 dBc/Hz
	100 Hz	< -115 dBc/Hz	< -55 dBc/Hz
	1 kHz	< -145 dBc/Hz	< -100 dBc/Hz
	10 kHz	< -165 dBc/Hz	< -165 dBc/Hz
	100 kHz	< -168 dBc/Hz	< -168 dBc/Hz
1MHz	< -169 dBc/Hz	< -169 dBc/Hz	
g-SENSITIVITY:	s/g, 3 axes	< ± 5.10-10/g	
Start-up time (90% of RF Output Power):	Temperature	Ton	
WARM UP TIME (FCY):	-40°C	< 240 s	< 180 s
	-20°C	< 180 s	< 120 s
	+25°C	< 120 s	< 80 s
	+75°C	< 80 s	< 80 s
CONSUMPTION:	± 2.10-8		
	Warm-up	< 6.75 W	< 6.75 W
	Steady state	< 5.00 W	< 4.50 W
FREQUENCY ADJUSTMENT:	ΔF/F	± 4.10-7 < dF/F < ± 5.10-7	
	(Internal trimmer)		
RF OUTPUT:	TYPE	Dual SINE WAVE	
	LEVEL	Dual +7 dBm ± 1dB J1 & J3	
	VSWR (120MHz ± 2.5MHz, +25°C)	< 1.5 : 1	
	HARMONICS	< -30 dBc	
	SUB HARMONICS NX10MHz	< -80 dBc	
	SPURIOUS 100Hz to 1kHz	< -80 dBc	
	SPURIOUS 1kHz to 10kHz	< -100 dBc	
	SPURIOUS 10kHz to 20MHz	< -120 dBc	
SPURIOUS vs SUPPLY VOLTAGE RIPPLE (10 Hz to 2MHz)	Typical < -85dBc		
PLL LOCK INDICATOR:	RS-422 Type	PLL locked: "0" status PLL Unlocked: "1" status	
POWER SUPPLY VOLTAGE:	VCC	+15Vdc ± 5%	
	RIPPLE	10mVpp Max DC to 2MHz	
LOAD:	Zc	50Ω ± 10%	



CONNECTOR TABLE	
J1/J3	SMA-F:
	RF output
J2	MDM, 9pins connector:
1-	Vcc - +15Vdc
2-	0V Gnd
3-	PLL lock +
4-	PLL lock -

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ARE:		APPROVALS	DATE	WV Communications 1125-A Business Center Circle Newbury Park, CA
FRACTIONS	DECIMALS	ANGLES	HILES	
± 1/64	.XXX-01	± 0°30'	.XXX-005	120.00MHz PHASE LOCKED OSCILLATOR LOW NOISE P/N 900-50449
.XXX-005	.XXX-005	.XXX-005	.XXX-001	
MACHINED FINISH: 32 RMS REMOVE BURRS .005 MAX				
MATERIAL				
FINISH				
NEXT ASSEMBLY USED ON				
900-50449	OCX01003			SIZE CAGE CODE DWG. NO. REV D 1GFQ7 050-51016 A
APPLICATION		DO NOT SCALE DRAWING	Q.A.	SCALE NONE SHEET 1 OF 1

REV. NO. 050-51016