



SPDRO Phase Locked Standard Sources

0.5 GHz to 42 GHz



FEATURES

- Single Loop, Locks to 10 MHz Ref
- Ultra-Low Phase Noise
- 100 dBc Spurious
- Very low Microphonics
- Zero Phase Hits
- Wide Operating Temperature Range
- Low DC Power Consumption
- Low Profile, Small Size
- Meets MIL-STD-188 and IESS 308

APPLICATIONS

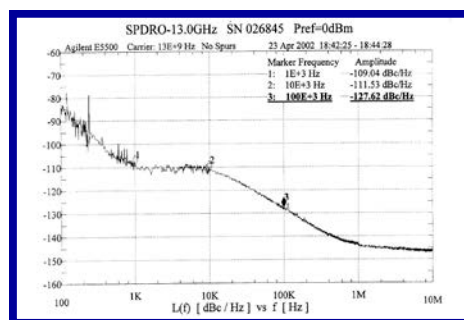
- SATCOM Converters
- Digital Radio to 512 QAM
- Instrumentation
- OEM Products

GENERAL DESCRIPTION

FEI-Elcom Tech's miniature SPDRO sources employ a unique technique to phase-lock a microwave DRO to a 10 MHz crystal reference. The technique utilizes a single loop for reliable phase-lock performance. By using one loop, size, power consumption and cost are minimized. These units are ideal for digital Radio, SATCOM and instrumentation.

TYPICAL FREQUENCIES

- SPDRO-3.600
- SPDRO-6.950
- SPDRO-10.300
- SPDRO-14.000
- SPDRO-19.500
- SPDRO-25.500
- SPDRO-31.000

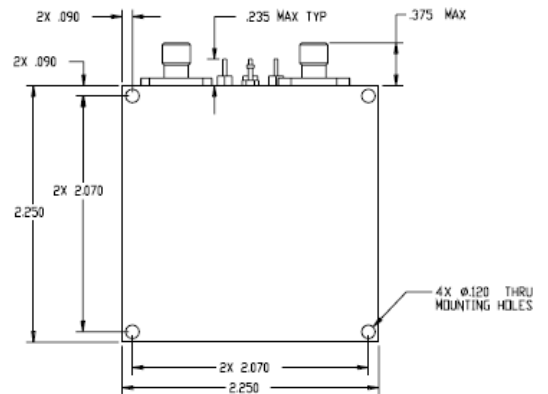
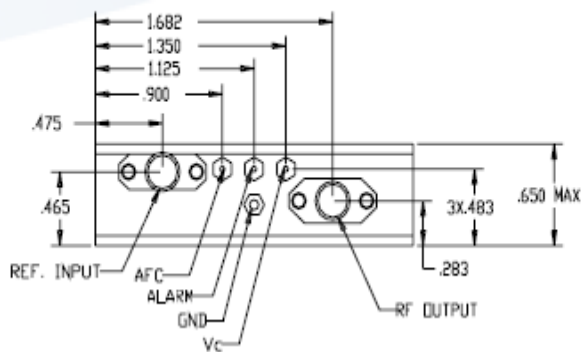




SPECIFICATIONS

Output Power	+7 dBm +/- 2 dB		
Input Reference	10 MHz – 500 MHz Options		
Reference Level	0 to 7 dBm		
Spurious	<-85 dBc		
Phase Noise [dBc]		<u>6.95</u>	<u>13.050</u>
	1 KHz offset	-95 dBc/Hz	-109 dBc/Hz
	10 KHz offset	-105 dBc/Hz	-111 dBc/Hz
	100 KHz offset	-125 dBc/Hz	-127 dBc/Hz
	1 MHz	-145 dBc/Hz	-143 dBc/Hz
Power Supply	+11 Volts		
Current Consumption	<350 mA		
Operating Temperature	-5° C to +70° C		
Size	2.25"x2.25"x0.65"		
Alarm Options	TTL logic "HIGH" - Locked		

OUTLINE DRAWING



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