



SPDRO Phase Locked Standard Sources

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.



0.5 GHz to 42 GHz

FEATURES

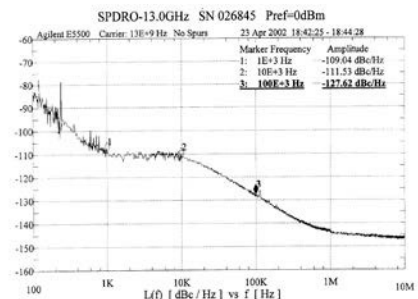
- Single Loop, Locks to 10 MHz Ref
- Ultra-Low Phase Noise
- 100 dBc Spurious
- Very low Microphonics
- Zero Phase Hits
- Wide Operating Temperature Range
- Low DC Power Consumption
- Low Profile, Small Size
- Meets MIL-STD-188 and IESS 308

APPLICATIONS

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

TYPICAL FREQUENCIES

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





SPDRO Phase Locked Standard Sources

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]	6.95	13.050
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 Current Consumption +11 Volts <350 mA

Operating Temperature -5° C to +70° C

Size 2.25"x2.25"x0.65"

Alarm Options TTL logic "HIGH" - Locked

