low phase noise, low spurious

1452-1492MHz SYNTHESIZER

features

- Low phase noise
- Low spurious (-65 dBc typ)
- Computer Controlled (RS-232C)
- 1452-1492MHz
- 0° to 50°C operating range
- Shielded design
- Internal frequency reference

description

This programmable signal source is completely self-contained with an internal TCXO reference. The synthesizer output frequency is serially loaded through the RS-232C control port. This source is suitable for use in dedicated test setups or as a component of a production system.

The synthesizer has an open drain Lock Detect output to indicate when the output is stable. An input is also provided to disable the RF output.

For detailed information on controlling this synthesizer using the RS-232 serial port, see the Synthesizer User's Manual.

310-010105-003

absolute maximum ratings

Temp, Case Operating:	-20 to 70°C
Temp, Storage:	-55 to 150°C
DC Volts:	+15.0V

typical specifications at 25C

RF OUTPUT:	
RF Out Freq (MHz)	1452-1492MHz
Ref Osc (MHz)	INTERNAL 14.4 MHz
Freq Step Size (kHz)	10
Max lock time (mSec)	10
Pout (dBm over freq)	5 +/- 1.0
Spurious (dBc)	-65
Harmonics (dBc)	-65
Frequency Stability (ppm)	+/- 2
SSB Phase Noise (dBc/Hz)	
1 kHz offset	65
10 kHz offset	95
100 kHz offset	115
DC Power:	8.0V-13.5V @ 100 mA maximum

dimensions and connections

2.76" W x 4.42" L x 0.55" H

PIN CONNECTIONS

RF OUT	J2 (SMA Jack)
RS-232 Data Out	J1(6)
RS-232 Data In	J1(5)
RS-232 GND	J1(14)
+12 VDC	J1(15)
+12V Return (GND)	J1(8)
RF enable	J1(3)
Lock detect (open drain)	J1(7)
Digital GND	J1(9)
Vext (5.5V max)	J1(2)
Vcc output	J1(1)

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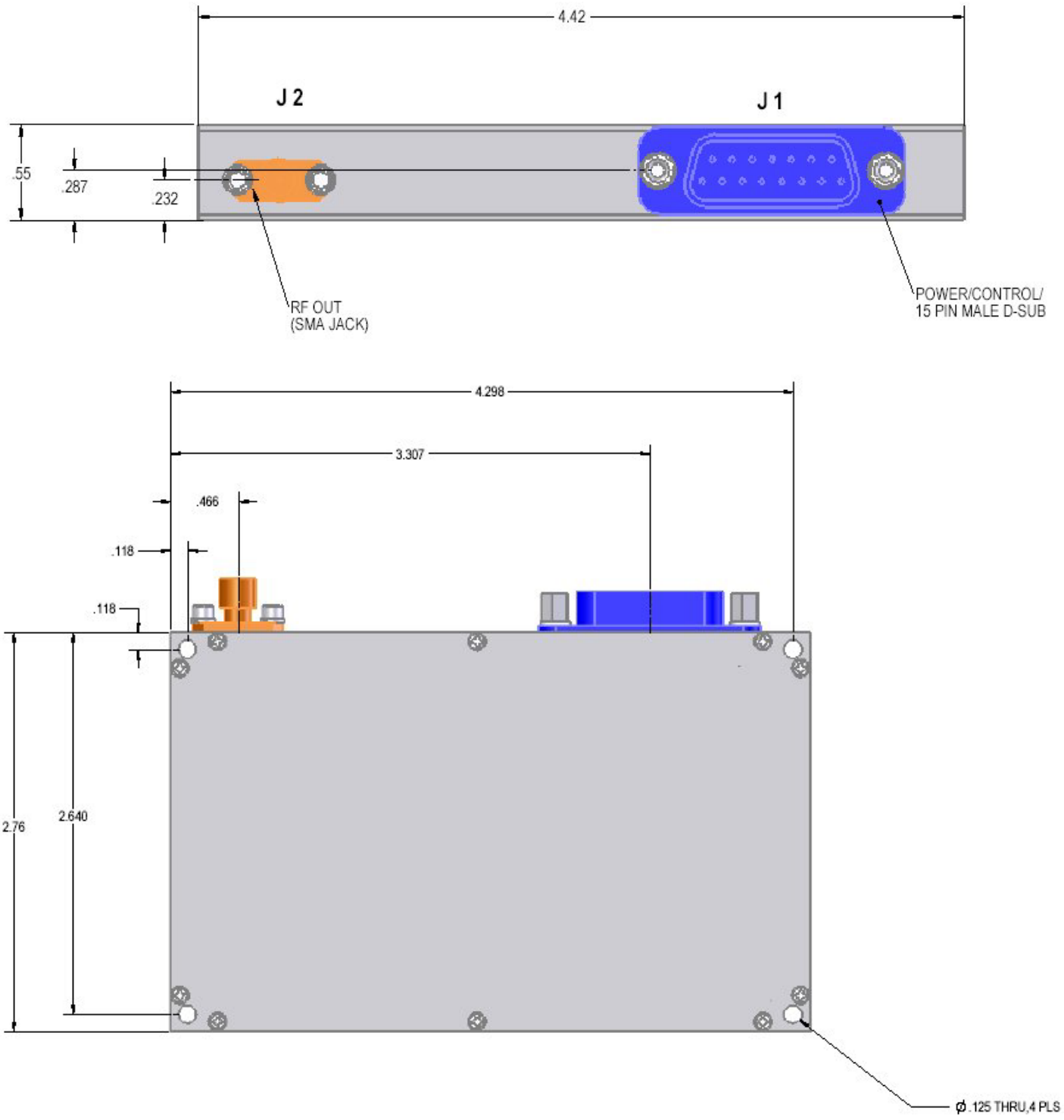
Dimensional Drawing



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