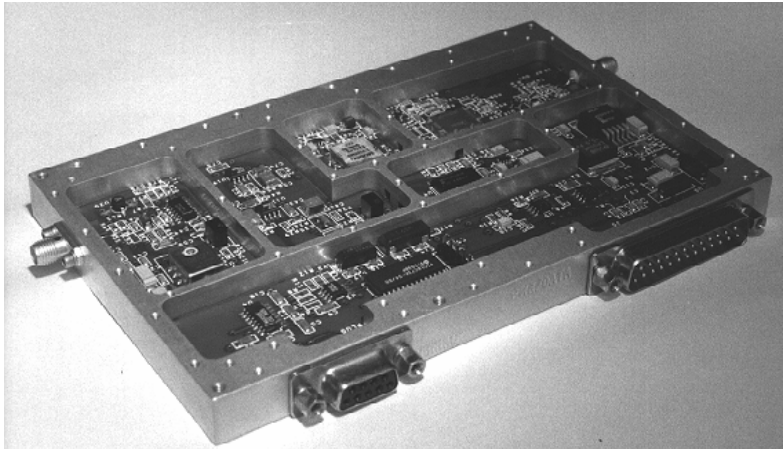


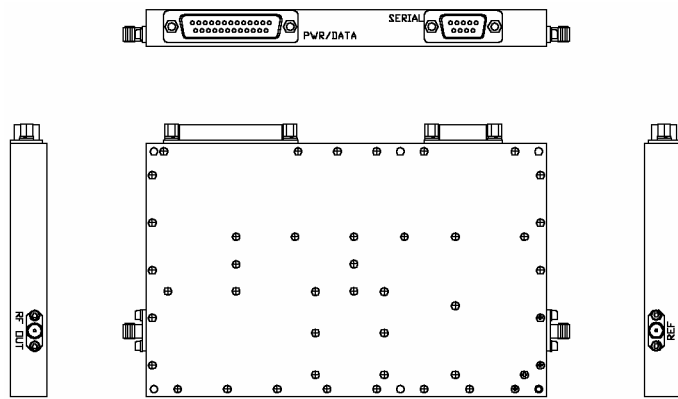
TEST SOURCE SYNTHESIZER 1705 - 2037 MHz



features

- Wide tuning range
- 10kHz Step Size
- Computer Controlled (RS-232C)
- 0 °C to 50°C operating range
- Shielded design
- Internal frequency reference

dimensions and connections



6.25" W x 3.94" L x 0.57" H
 J4 - 9-pin D-sub Jack
 J5-25-pin D-sub Plug

PIN CONNECTIONS

	J2 (SMA Jack)
RF OUT	
RS-232 Data Out	J4(2)
RS-232 Data In	J4(3)
RS-232 GND	J4(5)
+12 VDC	J5(1)
+12 V RTN	J5(2)
	J5(3)
LOCK DETECT	J5(4)
	J5(5)
Digital GND	J5(15)

description

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

typical specifications

RF Out Freq (MHz)	1705 - 2037
Ref Osc (MHz)	INTERNAL 14.4 MHz
Freq Step Size (kHz)	10
Pout (dBm over freq)	13.0 + 1.5
Spurious (dBc)	-60
Frequency Stability (ppm)	+/- 1.0
SSB Phase Noise (dBc/Hz)	
1 kHz offset	60
10 kHz offset	80
100 kHz offset	110

DC Power: +12.0 V @ 200 mA maximum

absolute maximum ratings

Temp, Case Operating: -10 to 70°C
 Temp, Storage: -55 to 150°C
 DC Volts: +15.0V

low phase noise, low spurious

TEST SOURCE SYNTHESIZER 1000 - 1500 MHz

Figure 1 - Output Spectrum - Phase Noise

Figure 2 - Output Spectrum - Spurious