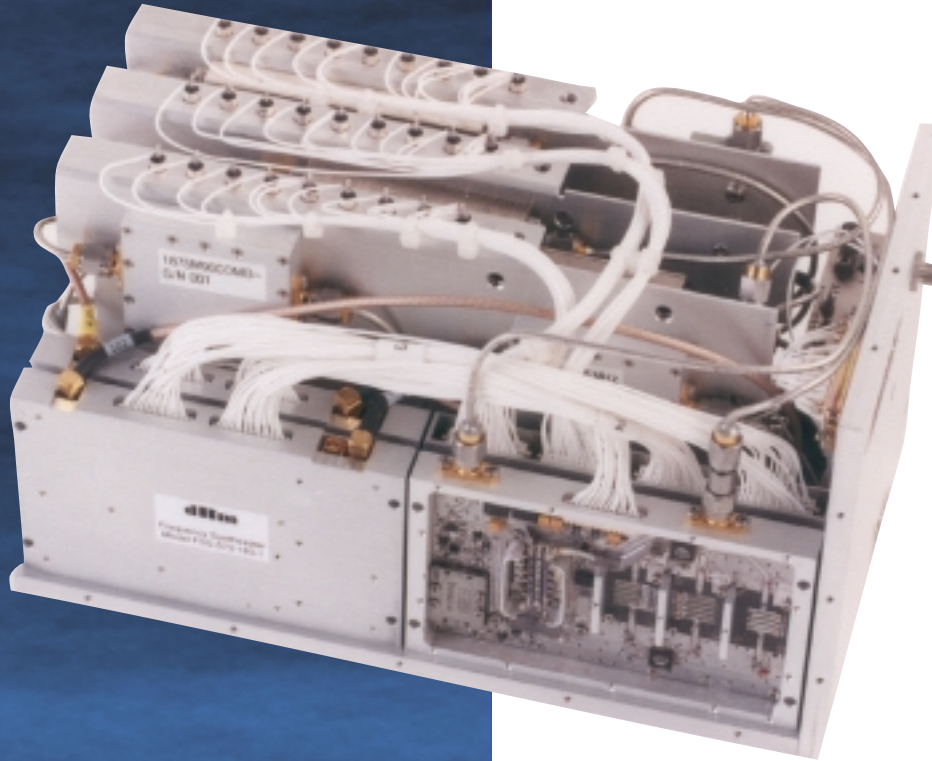


specs

Broadband Synthesizer

dBm

RF Test Equipment for Wireless Communications



Frequency Synthesizer Series

The Frequency Synthesizer Series (FSS) from dBm offers outstanding performance and stability in a compact footprint. With dBm's years of experience in synthesizer design and extensive modular product offerings we can tailor a design to meet your exacting needs with fast delivery.

Applications

Typical applications for the FSS include:

- ◆ Radar Local oscillator
- ◆ Signal source
- ◆ Wideband receiver

Features

- ◆ Broadband 6-18GHz
- ◆ Settling time < 200uS
- ◆ Small footprint
- ◆ Binary control - ease of integration
- ◆ Rugged construction

Specifications

Output Frequency: 6-18 GHz
 Frequency Resolution: 1 MHz
 Frequency Accuracy: ± 10 ppm (internal reference)
 Output Power: +13 dBm minimum
 Spurious (@ offsets > 1KHz): -50 dBc maximum
 Harmonics: -12 dBc maximum

SSB Phase Noise: at 18GHz typical

Offset from carrier	Phase noise (in dBc/Hz)
100 Hz	-65 dBc maximum
1 kHz	-65 dBc maximum
10 kHz	-72 dBc maximum
100 kHz	-90 dBc maximum

Switching Time

(settled within ± 1 MHz): < 200us
 Note: Output frequency blanked during frequency change

Frequency Control: TTL compatible
 Load Strobe: 1 Bit
 Data: 14 Bit parallel binary coded
 Reset: 1 Bit

Lock Indication: Logic 0 "locked" (Low)
 Logic 1 "out of Lock" (High)

Supply Voltages: +8 vdc $\pm 5\%$ @ 820 mA maximum
 +15 vdc $\pm 5\%$ @ 1.8 A maximum
 -15 vdc $\pm 5\%$ @ 200 mA maximum
 +28 vdc $\pm 5\%$ @ 100 mA maximum

Temperature Range
 Operating: 0° to +60° C base plate
 Storage ambient: -30° to +65°

Humidity: 95% RH non-condensing @ 45° C
 Operational Vibration: 10 mm pk-pk sine @ 2 to 14 Hz
 4 G @ 14 to 50 Hz
 Shock (non-operating): 20 G @ 11 mseconds half sine

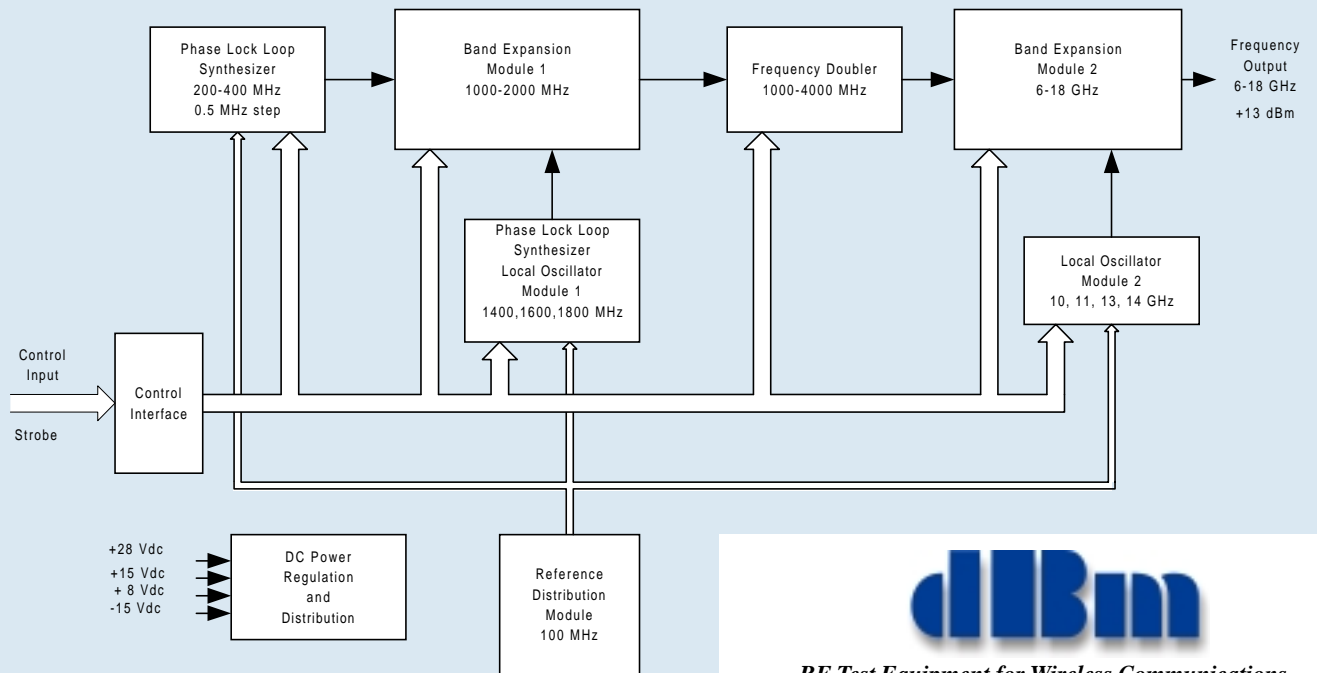
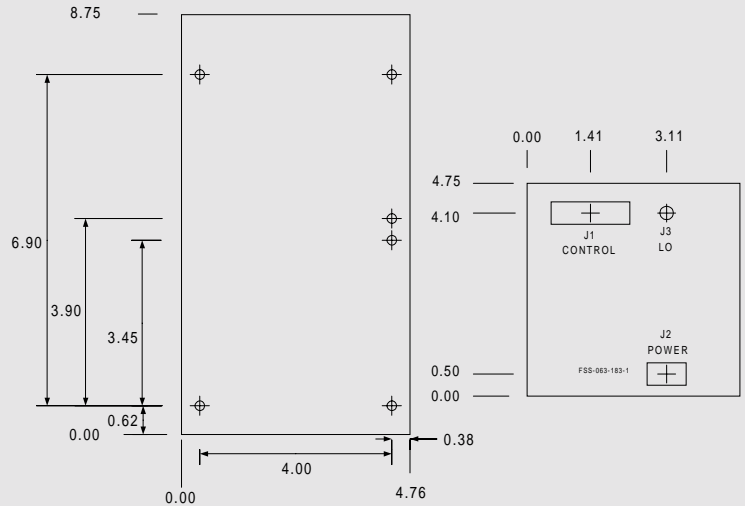
Connectors

RF output: SMA female
 Frequency control: 25 pin D-Subminiature per M24308/4-3
 Dc Power: 9 pin D-Subminiature per M24308/4-1

Marking

Part Number: "FSS-063-183-1"
 Control Connector: "J1 Control"
 Dc Power input Connector: "J2 Power"
 RF Output: "J3 LO"

Dimensions



RF Test Equipment for Wireless Communications

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