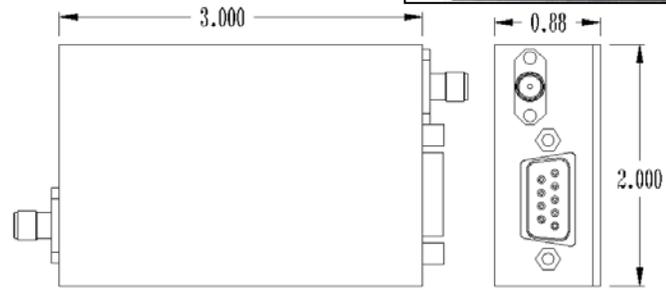


RFSU-9215B Frequency Synthesizer



Outline Drawing



All dimensions in inches

Features:

- Custom Designs to Your Specifications
- Small to Medium Production Quantities

Overview

Mid-Atlantic RF Systems manufactures a Phase-Locked Loop (PLL) synthesized RF source operating from 200.000 MHz to 250.00 MHz. The unit operates with an external 10 MHz reference applied. The output frequency is TTL controlled, in 5 MHz increments, through a 9 pin D-Sub connector.

Electrical Specifications:

Frequency Range:	200 to 250 MHz
Frequency Step:	5.0 MHz
RF Output Power:	+17 dBm +/- 1 dB
Reference Input:	10.000 MHz, 0 dBm +/- 3 dB
Frequency Control:	4-bit TTL digital word
Setting Time:	1.5 ms nom.
Load Stability:	Unconditionally stable
Harmonics:	30 dBc max.
Spurious:	Non-harmonic products at carrier offset of 10 kHz; -65 dBc and will meet 5 MHz; -80 dBc
Phase Noise:	-80 dBc min. at 10 kHz offset
DC Power:	+15 V, +/- 0.5 VDC, 0.205 Amps max.
Protection:	Max. DC power range -0.8 to +20.5 VDC

Mechanical Specifications:

Dimensions:	3.0" x 2.0" x 0.88"
Connectors:	9P D-Sub(m), SMA(f) x2
Mounting:	#4-40 Screws, 6 Places

Environmental Specifications:

Operating Temperature:	-20°C to +75°C at the mounting plate
Storage Temperature:	-40°C to +85°C