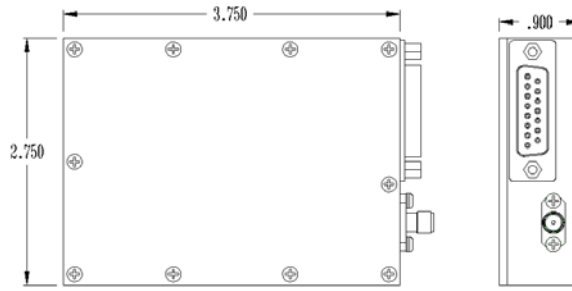


RFS9685-428-1B Frequency Synthesizer



Outline Drawing



All dimensions in inches

Features:

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

Overview

Mid-Atlantic RF Systems, Inc. offers a 406 to 450 MHz frequency synthesizer, tunable in 100 kHz steps, with an adjustable modulation input. Parallel input logic, power and modulation are supplied through a 15-pin D-Sub connector. The RF output connector is SMA (F). External FM adjustment is provided by a potentiometer. Custom designs can also be designed to meet your specifications.

Electrical Specifications:

RF Output

Carrier Frequency: 406 to 450 MHz

Resolution: 100 kHz steps

Frequency Selection: Parallel Input

Carrier Stability: $\pm 0.0005\%$

Power: +10 dBm min.

VSWR: 1.5:1

Impedance: 50 Ω nom.

Modulation

Frequency Response: 100 Hz to 100 kHz
 ± 3 db

Peak Deviation: +3 kHz max.

Intermodulation Distortion: 1% max.

Harmonic Distortion: 2% max.

Incidental AM: 5% max.

Modulation Input Impedance: 1k Ω nom.

Mechanical Specifications:

Dimensions: 4.1" x 2.7" x 0.9"

Connectors: 15P D-Sub(m), SMA(f)

Environmental Specifications:

Operating Temperature: 0 to +55°C