

# RF DISTRIBUTION MODULE

## MODEL: RFD-3C-130150

### FEATURES

- Common input port – 3 output ports
- Frequency range ..... 13–15 GHz
- RF gain ..... 16 dB minimum
- RF output power..... +21 dBm typical each port
- Isolation between channels..... 55 dB minimum
- In/out VSWR..... 1.5:1 maximum
- Low DC current ..... +9 VDC @ 500 mA maximum
- Hermetic



MITEQ's Model RFD-3C-130150 is an RF distribution module that receives an RF signal and distributes it to three different output ports. The signal goes through a two-stage amplifier and bandpass filter to provide an output that has low spurious and minimum harmonic content. This unit was designed for use in an extreme environment. It is small in size, lightweight, hermetic and has minimal DC power dissipation.

### ELECTRICAL SPECIFICATIONS

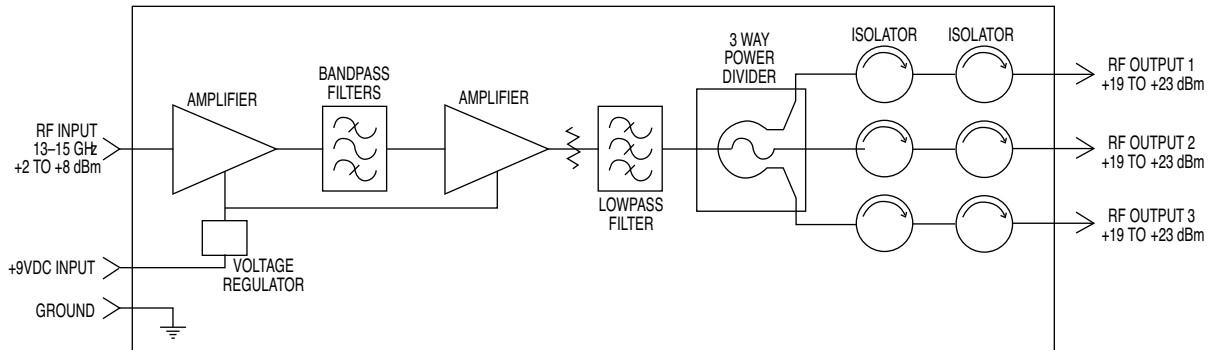
PARAMETERS	UNITS	MIN.	TYP.	MAX.
RF frequency	GHz	13		15
Gain	dB	15	16	17
Gain flatness	dB, p-p		1	1.5
RF output power	dBm	19	21	23
VSWR	Ratio		1.35:1	1.5:1
Isolation between channels	dB	55	62	
Rejection (11 GHz and 17 GHz)	dBc	28	33	
Harmonics and spurious	dBc	80	85	
DC current @ +9 volts	mA			500

### ENVIRONMENTAL CONDITIONS

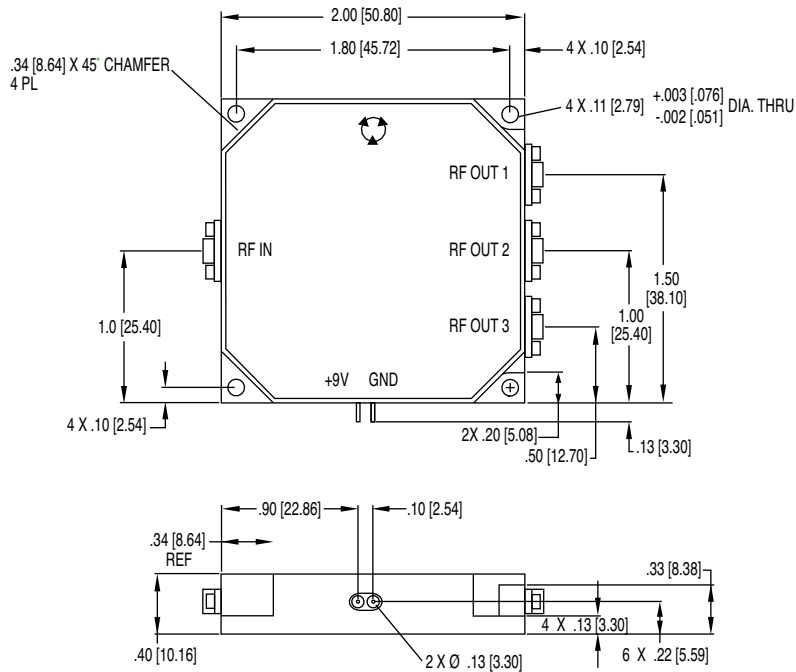
Operating temperature .....	-25°C to +65°C
Storage temperature .....	-55°C to +85°C
Humidity .....	Per MIL-STD-202 Method 103, Test Condition B
Shock .....	Per MIL-STD-810 Method 516, Procedure 1 (11.25 g's, 6.7 rms)
Thermal Shock .....	Per MIL-STD-202 Method 107, Test Condition A1 (25 cycles)
Altitude .....	Per MIL-STD-202 Method 105, Test Condition C (40,000 feet)

# RFD-3C-130150

## FUNCTIONAL BLOCK DIAGRAM



## OUTLINE DRAWING



### GENERAL NOTES:

1. Dimensions shown in brackets [ ] are in millimeters.
2. Tolerance as follows: .xx = ±0.01 [ .xx = ±0.25], .xxx = ±0.005 [ .xxx = ±0.13]

