



These L-band Amplitude/Slope Equalizer Modules offer independent gain and slope adjustment in the L-band frequencies. These systems are designed to compensate for long cable run loss in L-band.

### STANDARD FEATURES

- RS422, remote control
- Remote status
- Module current fault detection
- 0 to 6.0 dB slope adjustment
- Non-volatile memory

### OPTIONS

- Increased gain
- Increased output power
- Input monitor
- Output monitor

Frequency (MHz)	Model Number
950-1450	200 000 247-1
950-1750	200 000 247-2
950-2150	200 000 247-3

## SPECIFICATIONS

Gain	15 dB minimum (at center frequency and 6 dB slope), 18 dB nominal (at 0 dB slope)
Gain Adjust	20 dB minimum
Amplitude Slope Adjust	0 to 6 dB (see Figure 1)
Amplitude Flatness	1.5 dB peak-to-peak maximum (at 0 dB slope)
Power Output (1 dB Compression)	+10 dBm minimum (at maximum gain and 0 dB slope)
Third Order Intercept Point	+20 dBm minimum (at maximum gain and 0 dB slope)
Noise Figure	10 dB maximum (at maximum gain and 0 dB slope)
Spurious (Signal Independent)	Below thermal noise
AM/PM Conversion	0.5°/dB maximum at 0 dBm output
Input/Output Return Loss	18 dB minimum
Input/Output Impedance	50 ohms
Temperature Stability	±0.25 dB over any 20°C ±0.75 dB over 0°C to 50°C

## OPTIONS

21-1. Input Monitor .....	-20 dBc nominal level
21-2. Output Monitor .....	-20 dBc nominal level
21-3. Increased Output Power-	
Power Output (1 dB Compression) .....	+20 dBm minimum (at maximum gain and 0 dB slope)
Third Order Intercept Point .....	+30 dBm minimum (at maximum gain and 0 dB slope)
Output Return Loss .....	14 dB minimum
21-4. Increased Gain .....	30 dB minimum (0 dB slope)

### PRIMARY POWER REQUIREMENTS

Primary Power ..... +12 to +27V,  
3.0 W typical

### PHYSICAL

Weight ..... 0.85 lbs (0.39 kg)  
Module Dimensions ..... 4.3" x 3.21" x 0.83"  
Connectors -  
    RF Input..... SMA female  
    RF Output ..... SMA female  
    Summary Alarm and RS422..... DE-9P  
    DC ..... Molex 22-01-3027

### ENVIRONMENTAL

Operating -  
    Ambient Temperature ..... 0 to 50°C  
    Relative Humidity ..... Up to 95% at 30°C  
    Altitude ..... Up to 10,000 feet

Non-operating –

    Ambient Temperature ..... -50 to +70°C  
    Relative Humidity ..... Up to 95% at 40°C  
    Altitude..... Up to 40,000 feet  
    Shock and Vibration ..... Normal handling by  
    commercial carriers

**Figure 1**

