



“HOT SWAPPABLE” RF TRAYS, 1:1 REDUNDANT MODELS

These Amplitude/Slope Equalizer Systems offer independent gain and slope adjustment in the L-band frequencies. These systems are designed to compensate for long cable run loss and to provide system redundancy. The 1:1 Redundant System provides automatic and manual switchover modes of operation. Independent Amplitude/Slope Equalizers are “hot swappable” through the rear of the chassis.

STANDARD FEATURES

- RS422, RS485 and 10/100 Base-T Ethernet
- Fault tolerant design
- Fully redundant, hot swappable RF trays with power supplies, 1:1 redundant models
- Remote status
- Module current fault detection
- Front panel module current alarm
- Auto/manual mode
- Offline input/output access (1:1 redundant units)

OPTIONS

- Input/output signal monitors
- Increased output power

Frequency (MHz)	Dual Channel Model Number	1:1 Redundant Model Number
950-1450	EDR-950145-1W	E1R-950145-1W
950-1750	EDR-950175-1W	E1R-950175-1W
950-2000	EDR-950200-1W	E1R-950200-1W
950-2150	EDR-950215-1W	E1R-950215-1W

SPECIFICATIONS

Gain	38 ±3 dB (at center frequency and 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)	+30 dBm minimum (at maximum gain and 0 dB slope)
Third Order Intercept Point	+40 dBm minimum (at maximum gain and 0 dB slope)
Channel-to-channel Match	0.5 dB maximum
Noise Figure	20 dB maximum (at maximum gain and 0 dB slope)
Spurious (Signal Independent)	Below thermal noise
Isolation	60 dB minimum
Input Return Loss	18 dB minimum
Output Return Loss	15 dB minimum
Input/Output Impedance	50 ohms
Input Level (Non-damage)	+10 dBm maximum
Temperature Stability	±0.25 dB over any 20°C ±0.75 dB over 0°C to 50°C

OPTIONS

18-1. Input Monitor	-20 dBc nominal level
18-2. Output Monitor	-20 dBc nominal level
18-3. Increased Output Power (950-1750 MHz Frequency Band Only) -	
Power Output (1 dB Compression)	+33 dBm minimum (at maximum gain and 0 dB slope)
Third Order Intercept Point	+43 dBm minimum (at maximum gain and 0 dB slope)
Output Return Loss	14 dB minimum

PRIMARY POWER REQUIREMENTS

Voltage.....	90-250 VAC
Frequency.....	47-63 Hz
Power Consumption	40W typical
Fuses.....	T1.5A

SUMMARY ALARM

Contact closure/open for DC voltage and/or amplifier alarm. Status alarm readout on remote control bus.

PHYSICAL

Weight	10 pounds (4.5 kg), nominal without rack slides 14 pounds (6.4 kg), nominal with rack slides
Chassis Dimensions	19" x 1.75" panel height x 20" maximum
Connectors -	
RF.....	SMA female
Summary Alarm	DE-9P
Remote Interface.....	DE-9S for RS422, RS485 RJ-45 female for Ethernet
Primary Power.....	IEC-320

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

L-Band Slope Adjustment

