



AMPLIFIER SYSTEM

70 \pm 20 MHz

140 \pm 40 MHz

Up To 1 Watt Output



This independent dual-channel IF line driver amplifier system is designed to compensate for long IF cable run losses in terrestrial or satellite system applications. Available at 70 MHz or 140 MHz center frequencies, the amplifiers are designed either for 50 ohm or for 75 ohm cables. The amplifiers are gain matched with low noise figure and high dynamic range. The amplifiers are powered with two independent power supplies.

Model Number	Frequency (MHz)	Impedance (Ohms)
AR-2-70/75S	70 \pm 20	75
AR-2-70/50S	70 \pm 20	50
AR-2-140/75S	140 \pm 40	75
AR-2-140/50S	140 \pm 40	50

AMPLIFIER SYSTEM

70 ±20 MHz/140 ±40 MHz

GENERAL SPECIFICATIONS

	70 ±20 MHz	140 ±40 MHz
Number of amplifiers	Two	Two
Gain	30 dB minimum	28 dB minimum
Gain flatness	±0.2 dB maximum	±0.2 dB maximum
Return loss (input/output)	20 dB minimum	18 dB minimum
Power output (1 dB compression point)	+20 dBm minimum*	+18 dBm minimum*
Noise figure	5 dB maximum	6 dB maximum
*+30 dBm power output (1 dB compression point) with Option 11.		

Prime power 90–250 VAC, 47-63 Hz
 100, 220, 230/240 V optional (10 W typical), 250 VAC maximum

PHYSICAL

Weight 30 pounds nominal
 Overall dimensions 19" x 1.75" panel x 20" deep
 IF connectors, rear panel BNC female

ENVIRONMENTAL

Operating
 Ambient temperature 0 to 50°C
 Relative humidity Up to 95% at 30°C
 Atmospheric pressure Up to 10,000 feet
 Nonoperating
 Temperature -50 to +70°C
 Relative humidity Up to 95% at 40°C
 Atmospheric pressure Up to 40,000 feet
 Shock and vibration Normal handling by commercial carriers

OPTIONS

1. Power supply diode summing and remote fault alarms.
 Front panel test points Power supply "A" and "B" LEDs
 Remote alarms Power supply "A" and "B" contact closures for fault condition
 Type DEM-9P connector rear panel (mating hardware provided)

11. +30 dBm power output (1 dB compression point). Input/output return loss specification: 17 dB minimum.



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