

# **Amplifier System**

# 70 ±20 MHz 140 ± MHz Up to 1 Watt Output



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

This independent dual-channel IF line driver amplifier system is designed to compensate for long IF cable run losses in terrestrial or stellite 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.



# **General Specifications**

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

#### **Primary Power Requirements**

Voltage	90–250 VAC, 47–63 Hz
	100, 220, 230/240 V optional (10 W typical), 250 VAC maximur

### Physical

Weight	30 pounds [13.6 kg] nominal
Overall dimensions	19" [482.6mm] x 1.75" [44.5mm] panel x 20" [508mm] 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	
Ambient 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
	<b>5</b> , <b>.</b>

## Options

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



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