

Features

- **DirecTV & DishPro:** passes DC, 22kHz, DiSEqC
- **Made in USA:** 3 Year Warranty
- **Excellent Return Loss:** 15 dB input, 13 dB output
- **14 dB Gain:** 4 dB Slope Compensation
- **A/B Isolation** 30 dB minimum
- **Low Current Use:** 50 mA max (per LNB)
- **Line Powered:** 12 to 22 Vdc

Description

LA143 amplifiers compensate for 125 feet of coaxial cable loss from the LNB to the DBS receiver. Gain of 14 dB is complemented with 4 dB of slope to keep the DBS spectrum flat from transponder 1 to 32. High Return Loss matches the amplifier to the cable and minimizes reflections. The LA143 is receiver powered and passes both the DC and 22 kHz / DiSEqC signals to a switch or LNB. Current draw is only 50 mA (per channel) so receivers operate within their current limit. A maximum input of -28 dBm and a noise figure of 6 dB allows the amplifier to be placed at the dish or the receiver.

Specifications

Specifications **Typical** **QC Limit**

Gain		
950 MHz	10 dB	9 dB
1450 MHz	11 dB	10 dB
2150 MHz	14 dB	13 dB
2400 MHz	13 dB	11 dB

Maximum Input (32 transponders)..... -28 dBm
 IM2 with 2 tones @ -30 dBm -40 dBc -35 dBc min
 IM3 with 2 Tones @ -23 dbm -45 dBc -40 dBc min
 1 dB Compression, 1 Tone -6 dBm -8 dBm

Passband Flatness

Any 24 MHz band 0.1 dB 0.2 dB

Input Return Loss 950-2150 MHz 17 dB 15 dB

Output Return Loss 950-2150 MHz 15 dB 13 dB

Noise Figure 6 dB 7 dB

Amplifier A/B Isolation 30 dB 27 dB

Power Specifications

Voltage 12 to 22 VDC

Current 50 mA(per channel)

Mechanical Specifications

Dimensions 4.0" x 3.0" x 0.75"

Weight 0.5 lbs, (0.2 kg)

Master Carton (72 units) 12.5" x 12.5" x 9.5"

Carton Weight 17 lbs, (8.0 kg)

Environmental Specifications

Operating Environment: Indoor/Outdoor

Ambient Temperature -30° C to +70° C

Sonora reserves the right to modify their designs or specifications without prior notice. (Rev ac)

DBS 14 dB GAIN TRIPLE LINE AMPLIFIER

