



# Satellite Amplifiers



969 Horsham Road  
Horsham, Pennsylvania 19044 USA

### SPECIFICATIONS - PAL1-T

Passband Flatness	
Any 24 MHz Band	0.1 dB
Slope Compensation	ON / OFF
250 MHz to 2150 MHz	8 dB
950 MHz to 2150 MHz	6 dB
Input Return Loss	12 dB
Output Return Loss	13 dB
Preset AGC Output (32 Transponders)	-1 dBm
AGC Window @ -1 dBm out	-21 to -41 dBm (for 32 equal amplitude KU transponders)
Noise Figure	7 dB @ 2150 MHz

### RF SPECIFICATIONS - PAL1-T

Passband Gain @ inputs below AGC threshold				
Frequency	Flat	Slope	Flat	Slope
250 MHz	40 dB	36 dB	38 dB	34 dB
950 MHz	38 dB	38 dB	36 dB	36 dB
1450 MHz	39 dB	40 dB	37 dB	38 dB
2150 MHz	41 dB	44 dB	39 dB	42 dB
2400 MHz	38 dB	41 dB	36 dB	39 dB



### Autogain DBS Amplifier Model PAL1-T

Model PAL1-T powers a DBS dish, amplifies the DBS signals, pre-emphasizes high frequencies to compensate for cable slope and automatically adjust signal output level for -1 dBm per transponder (for 32 equal amplitude input transponders).

- DBS compatibility: .....DirecTV & DISH
- MADE IN USA: .....3 YR Warranty
- Indoor/Outdoor Case: .....Diecast Aluminum
- Powers LNBS: .....short circuit protected
- Automatic Gain: .....preset for -1 dBm (32 CH)
- Slope Compensation: .....select: 50 or 300 ft RG-6



### Autogain DBS Amplifier Model PAL10-T

DBS (DirecTV or DISH) 250 to 2400 MHz high power automatic gain amplifier. (AGC stands for Automatic Gain Control). Model PAL10-T powers a DBS dish, amplifies the DBS signals, pre-emphasizes high frequencies to compensate for cable slope and automatically adjusts signal output level for -10 dBm per transponder (for 32 equal amplitude input transponders).

- DBS compatibility: .....DirecTV & DISH
- MADE IN USA: .....3 YR Warranty
- Indoor/Outdoor Case: .....Diecast Aluminum
- Powers LNBS: .....short circuit protected
- Automatic Gain: .....preset for -10 dBm (32 CH)
- Slope Compensation: .....select: 50 or 300 ft RG-6

### SPECIFICATIONS - PAL10-T

Passband Flatness	
Any 24 MHz Band	0.1 dB
Slope Compensation	ON / OFF
250 MHz to 2150 MHz	8 dB
950 MHz to 2150 MHz	6 dB
Input Return Loss	12 dB
Output Return Loss	13 dB
Preset AGC Output (32 Transponders)	-10 dBm
AGC Window @ -10 dBm out	-29 to -49 dBm (for 32 equal amplitude KU transponders)
Noise Figure	7 dB @ 2150 MHz

### RF SPECIFICATIONS - PAL10-T

Passband Gain @ inputs below AGC threshold				
Frequency	Flat	Slope	Flat	Slope
250 MHz	40 dB	36 dB	38 dB	34 dB
950 MHz	38 dB	38 dB	36 dB	36 dB
1450 MHz	39 dB	40 dB	37 dB	38 dB
2150 MHz	41 dB	44 dB	39 dB	42 dB
2400 MHz	38 dB	41 dB	36 dB	39 dB

Sonora Satellite Amplifiers

## DBS Line Powered Amplifier Model LA141, LA142, LA143

Indoor / Outdoor 950 to 2400 MHz DBS line powered amplifiers have 14 dB gain. Available in single, dual and triple configurations. Model LA141, LA142, or LA143 inserted between the receiver and the dish boosts the DBS signal level the equivalent of 150 feet of RG-6 cable.

- Receiver Compatibility: . . . . . DirecTV, DISH
- High Input Level: . . . . . -28 dBm
- DC & 22 kHz/DiSeQc passing: . . . low insertion loss  
. . . . . high impedance to ground
- Line Amplification . . . . . 14 dB (150 ft RG-6)



SPECIFICATIONS - LA141, LA142, LA143		
Gain		
950 MHz		10 dB
1450 MHz		11 dB
2150 MHz		14 dB
2400 MHz		13 dB
Maximum Input (32 transponders)		
IM2 with 2 tones @ -30 dBm		-40 dBc
IM3 with 2 tones @ -23 dBm		-45 dBc
1 dB Compression, 1 tone		-6 dBm
Passband Flatness		
Any 24 MHz band		0.1 dB
Input Return Loss 950-2150 MHz		17 dB
Output Return Loss 950-2150 MHz		15 dB
Noise Figure		6 dB
Power Specifications		
Voltage		12 to 22 VDC
Current		45 mA / channel



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Specifications Subject To Change Without Notice.