

HDSSAG20

**HIGH DEFINITION 20dB ADJUSTABLE GAIN
SATELLITE/ TRANSPONDER SELECTOR**

HDT Labs



Description

The HDSSAG20 is a 4-channel adjustable gain satellite/transponder selector designed to work with DirecTV 5 LNB dish antennas. The HDSSAG20 selects and amplifies even and odd transponder signals from satellites 99°, 101°, 103°, 110°, and 119°. Each channel has an adjustable gain in excess of 18dB and covers a frequency range of 250MHz to 2150MHz. The HDSSAG20 is used in conjunction with stacked and multiswitch systems. The HDSSAG20 includes an 18VDC/1.5A external power supply.

Specification

| | Minimum | Typical | Maximum |
|---|---------|----------|---------|
| Frequency..... | 250MHz | | 2150MHz |
| Gain..... | -5dB | 18dB | 19dB |
| Noise Figure..... | | 3.5dB | |
| Input Return Loss..... | | 14dB | |
| Output Return Loss..... | | 14dB | |
| 3rd Order Input Intercept Point..... | | -2dBm | |
| 1dB Input Gain Compression Point..... | | -12dBm | |
| Channel-to-Channel Isolation..... | | 20dB | |
| Channel-to-Channel Rejection (Output Referenced)..... | | 40dB | |
| DC Supply Voltage..... | | 18V 20V | |
| DC Supply Current..... | | 1A | 1.5A |
| 99°/101° Odd Transponder LNB Voltage..... | 13VDC | 13.75VDC | 14.5VDC |
| 99°/101° Even Transponder LNB Voltage..... | 17VDC | 18VDC | 20V |
| 103°/119° Odd Transponder LNB Voltage..... | 13VDC | 13.75VDC | 14.5VDC |
| 103°/100°/119° Even Transponder LNB Voltage..... | 17VDC | 18VDC | 20V |
| 22kHz Tone Generator Frequency..... | | 22kHz | |
| 22kHz Tone Generator Amplitude..... | 0.3Vp-p | 0.4Vp-p | |

For Indoor Use Only. Operating temperature of the HDSSAG20 is -40°C to +85°C but the external power supply is limited from 0°C to 50°C. An external power supply with a wider operating temperature range may be available upon request. (Specifications subject to change without notice.)