

# HDSSFG20B

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

**HDT Labs**



### Description

The HDSSFG20B is a 4-channel fixed 20dB gain satellite/transponder selector designed to work with DirecTV 5 LNB dish antennas. The HDSSFG20B selects and amplifies even and odd transponder signals from satellites 99°, 101°, 103°, 110°, and 119°. Each channel has a gain in excess of 20dB and covers a frequency range of 250MHz to 2150MHz. The HDSSFG20 is used in conjunction with stacked and multiswitch systems. The HDSSFG20B includes an 18VDC/1.5A external power supply.

### Specification

Specification	Minimum	Typical	Maximum
Frequency.....	250MHz		2150MHz
Gain.....	15dB	21dB	22dB
Noise Figure.....			
Input Return Loss.....		14dB	
Output Return Loss.....		14dB	
3rd Order Input Intercept Point.....	-2dBm	0dBm	
1dB Input Gain Compression Point.....		-10dBm	
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.....	12.5VDC	13.75VDC	14.5VDC
99°/101° Even Transponder LNB Voltage.....	17VDC	18VDC	20V
103°/119° Odd Transponder LNB Voltage.....	12.5VDC	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 HDSSFG20B 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.