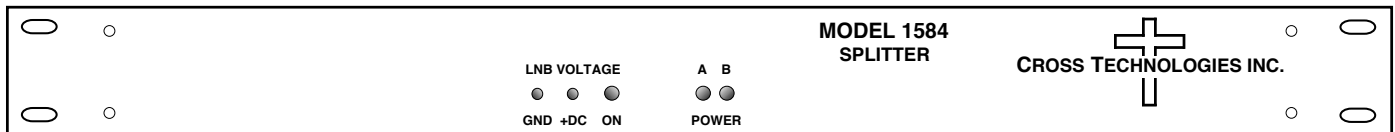
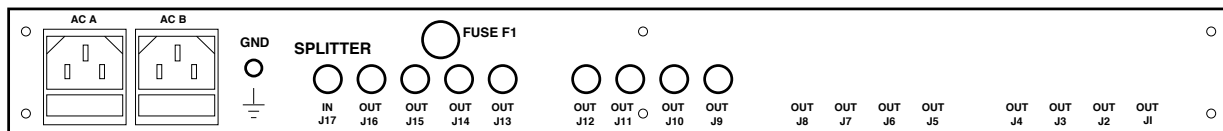


## 1584-18/18S\* RF Splitter

The Model 1584-18/18S\* is one eight-way, 0.95 - 2.05 GHz, 0 dB gain splitter in a 1RU rack mount chassis with redundant 100-240  $\pm$  10% VAC power supplies. The splitter provides fused LNB DC power insertion and surge protection on the RF input, and provides excellent RF characteristics. The splitter has eight outputs on the back panel, and fused LNB power can be inserted on the input. Two individual 100-240  $\pm$  10% VAC input power supplies provide diode OR'd redundant power to the unit\*. The LNB power line is separately fused. A surge suppressor on the splitter input protects against high voltage transients. On the front panel, two green LED's indicate the presence of DC voltage from each of the two power supplies, and another green LED indicates LNB power insertion. LNB voltage test points are also provided on the front panel to monitor the LNB voltage. **\*LNB Power Insertion feature NOT available on 1584-18S model.**



**1584-18/18S FRONT PANEL**



**1584-18/18S REAR PANEL**

### EQUIPMENT SPECIFICATIONS\*\*

#### Input Characteristics

Input Impedance 75 $\Omega$  (50 $\Omega$ , Option -D)  
 Return Loss 12dB min, 14dB typ  
 Input Level -20 dBm total maximum  
**(No damage +10 dBm)**

#### Output Characteristics

Impedance 75 $\Omega$  (50 $\Omega$ , Option -D)  
 Return Loss 12dB min, 14dB typ

#### In-Band Characteristics

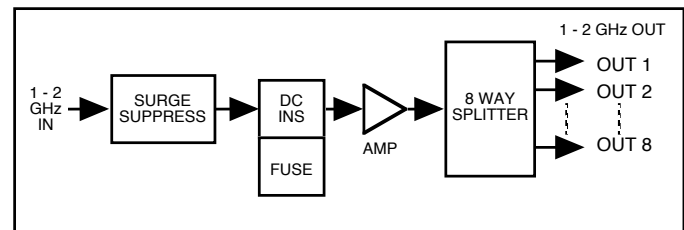
Gain 0 dB  $\pm$  1.0 dB  
 Frequency Response  $\pm$  1.0 dB, .95 - 2.05 GHz;  
 $\pm$  0.5 dB, any 20 MHz incr.  
 Port to Port Isolation > 18 dB, 20 dB typical

#### Indicators

Power Green LED indicates DC Voltage prior to diode OR  
 LNB DC Voltage Green LED indicates LNB power insertion on  
 Splitter Input (J17)

#### Other

LNB DC voltage 22  $\pm$  2 VDC  
 Output LNB current 300 ma, max  
 Surge Suppressor SiDACTOR  
 RF connectors Type F (female)  
 AC Power Redundant switching power supplies, 100-240  $\pm$  10% VAC, 47 - 63 Hz, 30 watts max  
**\*NOTE: Model 1584-18S has a Single Non-redundant, Switching Power Supply and does NOT provide the LNB Power Insertion feature.**  
 Mechanical 19 inch standard chassis 1.75" high X 12" deep



**1584-18/18S Block Diagram**

#### Options

B - 75 $\Omega$ , BNC RF Connectors  
 D - 50 $\Omega$ , BNC RF Connectors  
 E - Ext. 10 MHz Ref. Input, w/insertion  
 W9 - DC (24 vdc/2.5A) Power By-pass  
 W31- 0°C to +50°C Temperature Specs.

\*\*10°C to 40°C; Specifications subject to change without notice

