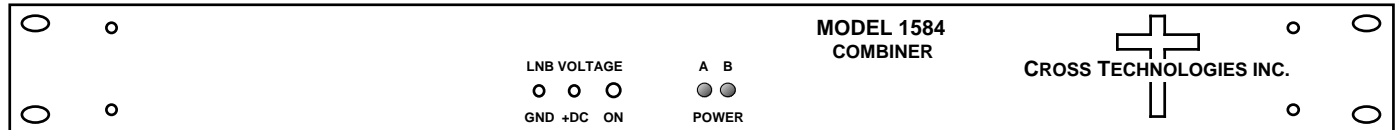
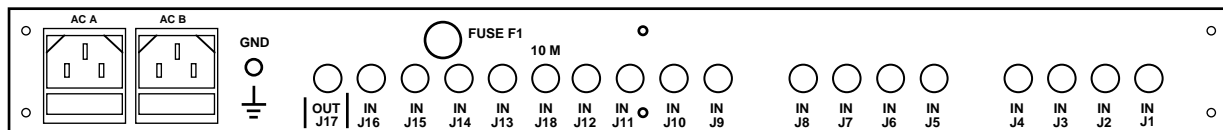


## 1584-161 RF Combiner

The Model 1584-161 is one sixteen-way, 0.95 - 2.05 GHz, 0 dB gain combiner in a 1RU rack mount chassis with redundant 100-240  $\pm$ 10% VAC power supplies. The combiner provides excellent RF characteristics. It has sixteen inputs and one output on the back panel. Two individual 100-240  $\pm$ 10% VAC input power supplies provide diode OR'd redundant power to the unit. A surge suppressor on the combiner output 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.



**1584-161 FRONT PANEL (SHOWN WITH OPTION -I)**



**1584-161 REAR PANEL(SHOWN WITH OPTION -I (F1) AND -E (J18))**

### EQUIPMENT SPECIFICATIONS\*

#### Input Characteristics

Input Impedance **75 $\Omega$ , Type F standard (see other options below)**  
 Return Loss 12 dB min, 14 dB typ.  
 Input Level -20 dBm total maximum

#### Output Characteristics

Impedance **75 $\Omega$ , Type F standard (see other options below)**  
 Return Loss 12 dB min, 14 dB typ.  
**Output LVL max. -5 dBm combined output, min.**  
**Output LVL 1dB +5 dBm combined output, min.**

#### 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 typ.

#### Indicators

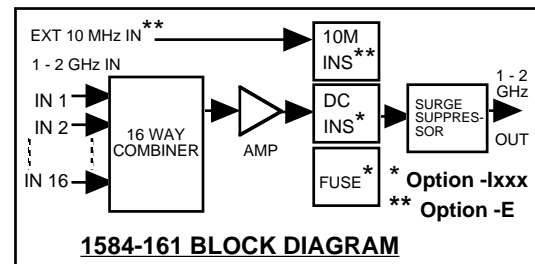
Power Green LED indicates DC voltage prior to diode OR'd and to amplifiers  
**LNB DC Voltage Option -lxxx only - Green LED indicates DC insertion on J17 OUTPUT;  
 Front Panel Test Points for measuring the voltage with a VOM**

#### Other

Surge Suppressor SiDACTOR  
 RF connectors Type F (female) (see other options below)  
 AC Power Redundant switching power supplies, 100-240  $\pm$  10% VAC, 47 - 63 Hz, **15 watts max. (option -l222, 65w)**  
 Mechanical 19 inch standard chassis 1.75" high X 12" deep

#### Options

-B 75 $\Omega$ , BNC RF connectors  
 -C RF Out BNC 50 $\Omega$ , RF In Type F, 75 $\Omega$   
 -D 50 $\Omega$ , BNC RF connectors  
 -E **external 10 MHz insertion (J18 IN to J17 Insertion OUT); 1dB max insertion loss; 75/ 50  $\Omega$  )**  
 -lxxx **DC insertion on J17 OUT; -xxx number defines voltage and current. l222 = 22 VDC at 2 amps**  
 W9 **10 MHz and DC Power (up to 28 VDC, 2.5 amps) Pass Through @ J16 IN to J17 OUT**



**1584-161 BLOCK DIAGRAM**

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