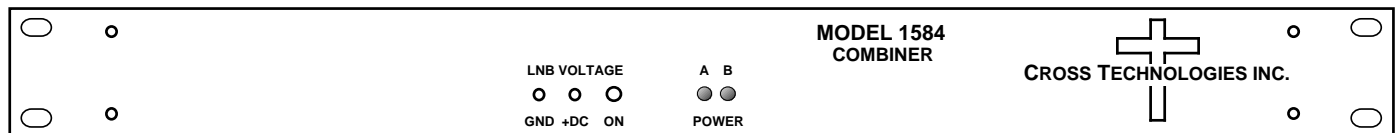
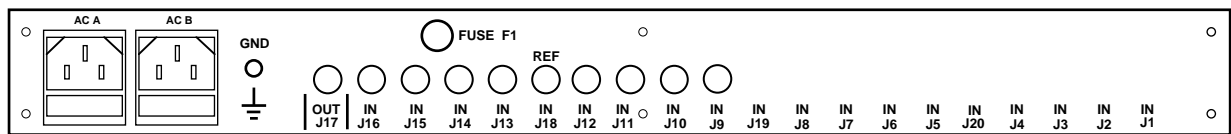


1584-81 RF Combiner

The Model 1584-81 is one eight-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 eight 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.



1584-81 FRONT PANEL (SHOWN WITH OPTION -I)



1584-81 REAR PANEL (SHOWN WITH OPTION -I (F1) AND -E (J18))

EQUIPMENT SPECIFICATIONS*

Input Characteristics

Input Impedance **75 Ω , type F standard (see other options below)**
 Return Loss **12 dB min, 14 dB typ.**
 Input Level **-15 dBm total maximum, each input**

Output Characteristics

Impedance **75 Ω , type F standard (see other options below)**
 Return Loss **12 dB min, 14 dB typ**
Output Level, max. -5 dBm combined output, min.
Output Level, 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

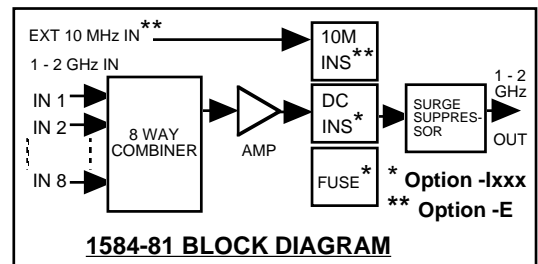
Power **Green LED indicates DC voltage prior to diode OR'd and to amplifiers**
**LNB DC Voltage Option -lxxx only - Green LED indicates DC insertion on J17 OUTPUT;
 Front Panel Test Points for measuring the voltage with a VOM**

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 -I222, 65w)**
 Mechanical **19 inch standard chassis 1.75" high X 12" deep**

Options

-B **75 Ω , BNC RF connectors**
 -C **RF Out BNC 50 Ω , RF In Type F, 75 Ω**
 -D **50 Ω , BNC RF connectors**
 -E **External 10 MHz insertion (J18 IN to J17 Insertion OUT); 1dB max insertion loss; 75/ 50 Ω**
 -lxxx **DC insertion on J17 OUT; -xxx number defines voltage and current. I222 = 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**



1584-81 BLOCK DIAGRAM

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