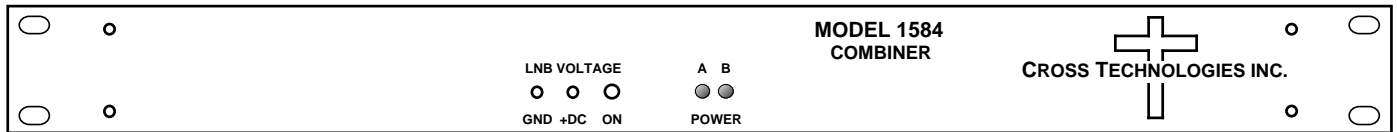


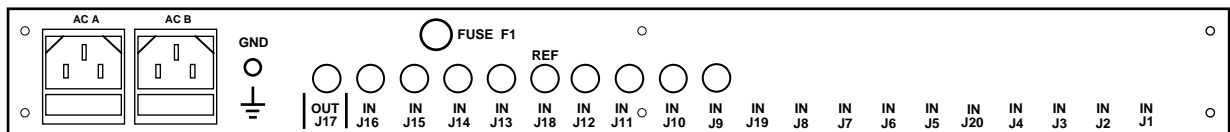


1584-81/81S* RF Combiner

The Model 1584-81/185 is one eight-way, 0.95 - 2.05 GHz, 0 dB gain combiner in a 1RU rack mount chassis with redundant 100-240 ±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 ±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. *LNB Power Insertion feature NOT available on 1584-81S model.



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 **75Ω, 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 **75Ω, 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

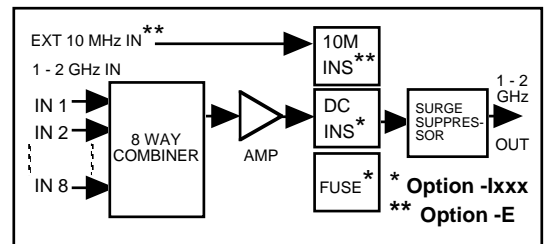
Gain 0 dB ± 1.0 dB
 Frequency Response ± 1.0 dB, .95 - 2.05 GHz;
 ± 0.5 dB, any 20 MHz incr.
 Port to Port Isolation > 18 dB, 20 dB typ

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 ± 10% VAC, 47 - 63 Hz, 15 watts max. (option -I222, 65w).
•NOTE: Model 1584-81S 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.



1584-81/81S BLOCK DIAGRAM

OPTIONS

- B 75Ω, BNC RF Connectors
- D 50Ω, BNC RF Connectors
- E External 10 MHz insertion (J18 IN to J17 Insertion OUT; 1 dB max insertion loss; 75/50Ω
- W9 10 MHz & DC Power (up to 28 VDC, 2.5 amps) Pass Through @J16 IN to J17 OUT
- lxxx DC Insertion on J17 OUT; -xxx number defines voltage & current. 1222=22 VDC at 2 amps
- W31 0°C to +50°C Temperature Specs.

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