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MODEL VXI-6581
LO DISTRIBUTION UNIT



DESCRIPTION

The VXI-6581 provides the capability of distributing RF input from one or more antennas to VXI-3550 VHF/UHF DSP receivers. The VXI-6581 is also used in coherent applications for distributing the LO outputs from the assigned master VXI-3550 receiver to three additional VXI-3550 receivers operating in the slave mode.

The VXI-6581 has three inputs, each applied to a 1 x 4 splitter (refer to the block diagram on the back page). For distributing LO outputs, inputs A and B are intended to be used for the 1st and 2nd LOs (normally in the range of 20 to 3000 MHz). Input C is reserved for the 3rd LO which is normally less than 30 MHz.

FEATURES

- High dynamic range - third order intercept point is >+25 dBm
- Flexible - can be used for both HF and VHF/UHF distribution:

  2 x 1 to 4 (above 30 MHz)
  1 x 1 to 4 (below 30 MHz)

- Wide bandwidth: 1 MHz to 3 GHz
- Provided with a matched cable set
- Rugged construction - suitable for airborne or vehicle installation
- VXI “C” size, single slot

VXI-6581 LO DISTRIBUTION UNIT SPECIFICATION

FREQUENCY RANGE
20 to 3000 MHz (inputs A, B)
1 to 30 MHz (input C only)

GAIN
0 dB ±0.5 dB

GAIN FLATNESS
<2 dB peak-to-peak

GAIN BALANCE
<0.5 dB

INPUT/OUTPUT IMPEDANCE
50 ohms nominal

VSWR
<2.0:1 input/output

NOISE FIGURE
7 dB

THIRD ORDER INTERCEPT POINT
>25 dBm (inputs A, B)
>30 dBm (input C)

SECOND ORDER INTERCEPT POINT
>50 dBm (inputs A, B)
>35 dBm (input C)

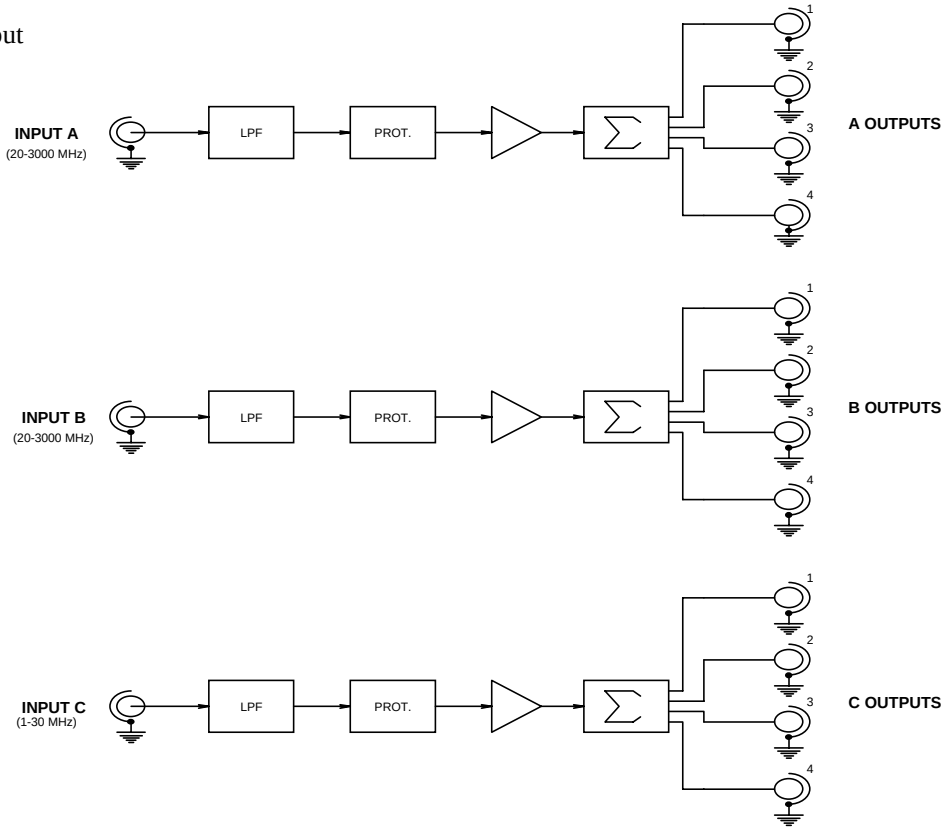
INPUT COMPRESSION POINT
>+20 dBm

ISOLATION, OUTPUT-TO-OUTPUT
>20 dB

ISOLATION, OUTPUT-TO-INPUT
>25 dB

POWER CONSUMPTION
+24V @ 300 mA
+12V @ 100 mA

DIMENSIONS AND WEIGHT
VXI "C" size, single slot
Weight: 3 lbs.



Ordering Information

Model	Part Number	Description
VXI-6581	2805-1000-6	VHF/UHF LO Distribution Unit, 20 - 2400 MHz

Specifications subject to change without prior notice
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