2083-1610 Block Translator, 1600-2000 to 950-1350 MHz

**EQUIPMENT SPECIFICATIONS**

**Input Characteristics**

- **Input Impedance/RL**: 50Ω/12 dB
- **Frequency**: 1600 - 2000 MHz
- **Max Input Level setting**: -20 to -40 dBm, in 1±1 dB steps
- **Input Level Range**: 0 to -20 dB below MAX IN setting
- **Noise Figure, max.**: 15 dB at -20 dBm MAX IN setting

**Output Characteristics**

- **Impedance/RL**: 50Ω/12 dB
- **Frequency**: 950 - 1350 MHz
- **Output Composite Level**: -20 to -60 dBm (MAX IN -20 to -40)
- **Output 1 dB compression**: -10 dBm, at max gain

**Channel Characteristics**

- **Gain**: 0 ± 1 dB at Fc and MAX IN set to -20 dBm
- **Frequency Response**: ± 1.5 dB, 400 MHz bandwidth; ± 0.5 dB, any 40 MHz increment
- **Spurs-in band (NOTE 2)**: < -50 dBc in band, signal dependent and signal independent; -20 dBm out; (NOTE 1)
- **Spurs-out of band (NOTE 2)**: < -30 dBc, 0.5-0.94 GHz and 1.36-2.1 GHz and 1.60-2.0 GHz feed through; -20 dBm out; (NOTE 1)
- **Frequency Sense**: Non-inverting
- **Group Delay**: < 2ns, band; < 1ns, any 65 MHz
- **Synthesizer Characteristics**
  - **Translation; Accuracy**: 1 ppm, Option -H, ±0.01 ppm
  - **Reference**: 10 MHz Internal; Option -E, Internal/External selection; external level 3±3 dBm
  - **Frequency Step**: None, fixed frequency

**Controls, Indicators**

- **Fc Translation**: Direct readout LCD; manual or remote selection
- **MAX IN level**: Direct readout LCD; manual or remote selection
- **Ext. ref. (Option -E)**: Direct readout LCD; manual or remote selection
- **Power; Alarm; Remote**: Green LED; Red LED; Yellow LED
- **Remote**: RS232C, 9600 baud; RS485, Ethernet Options

**Available Options**

- **E** - External 10 MHz Input & Output
- **H** - High Stability (±0.01ppm) Internal Ref
- **Q** - RS485 Remote Interface
- **W8** - Ethernet; w/ Web Browser (WB)
- **W18** - Ethernet; w/WB & SNMP
- **W28** - Ethernet; w/TCP/IP, Telnet
- **W828** - Ethernet, W18 + W28

**Contact Cross for other options**