

WAVE-3G CON-800/1990

RF CONVERTER



DESCRIPTION

The WAVE-3G CON performs broadband frequency translation with low distortion, high dynamic range, and low phase noise. This RF to baseband unit profiles I/Q interface programming for level, impedance, and DC offset.

GENERAL SPECIFICATIONS

- Input/Output Connectors: Type N
- Frequency Control: Digital (binary)
- Number of Channels: 2
- Local Oscillator: 1 & 2 Internal
- Step Size: 1 MHz
- Frequency Control: Digital (binary)
- Operating Temp: +10° to +40°C
- Supply Voltage: 90-264 VAC auto ranging
- Frequency: 44 - 66 Hz
- Consumption: 1.0A maximum
- Fuse: 2A
- Dimensions: 17" x 21" x 5.25"
- Weight: 25 lbs. maximum
- CE Compliant ISM 1-A

WAVE-3G CON RF CONVERTER SERIES

MODEL	FREQUENCY	INPUT/OUTPUT FREQUENCY	BANDWIDTH	# OF CHANNELS
WAVE-3G CON	800/1990	25 MHz	20 MHz	2

Other frequency ranges are available

DOWN CONVERTER

Input Frequency Range: 800 to 1990 MHz
 Output Frequency : 25 MHz
 Input Power: 0 dBm maximum (CW sine)
 Conversion Gain: 0 dB +/- 1.5 dB
 Output Power: 0 dBm nominal
 Out-of-Band Spurious: < -50 dBc (input power 0 dBm)
 In-Band Spurious
 Non-harmonic: < -50 dBc
 Harmonic: < -60 dBc
 Amplitude Flatness: < 0.2 dBpp / 20 MHz
 Phase Linearity: +/- 2 degrees / 10 MHz
 VSWR: 1.3:1 maximum into 50 ohms
 Phase Jitter: < 3 degrees RMS (100Hz to 1MHz)

Phase noise: dBm/Hz
 100Hz offset -71
 1kHz offset -80
 10kHz offset -83
 100kHz offset -91
 500kHz offset -104

OPTIONS

Processor Subassembly:
 IEEE-488 programming control
 Output Attenuator on Up-converter
 Dynamic range 95 dB
 Resolution 1 dB

UP CONVERTER

Input Frequency: 25 MHz
 Input Power: 0 dBm maximum
 Conversion Loss: 0 dB +/- 1.5 dB
 Amplitude Flatness: < 0.2 dBpp / 20 MHz (typical)
 Phase Linearity: +/- 1 degrees/10MHz
 Output Frequency Range: 800 to 1,990 MHz
 In-band Spurious: < -50 dBc (input -10 dBm)
 Out-of-Band Spurious: < -40 dBc
 VSWR: 1.3:1 maximum into 50 ohms
 Phase Jitter: < 3 degrees RMS (100Hz to 1MHz)

Phase noise: dBm/Hz
 100Hz offset -71
 1kHz offset -80
 10kHz offset -83
 100kHz offset -91
 500kHz offset -104

MICRONETICS
 TEST SOLUTIONS