

# VXI RF Generator

Part Number FW01-10100-10

## PRODUCT DESCRIPTION

The 3-slot VXI RF Generator provides a single-channel programmable sinusoidal signal over the frequency range of 10 MHz to 18 GHz with external modulation (AM, FM and PM) and frequency sweep capability. Designed to meet the requirements of commercial and military ATE systems, the FW01-10100-10 RF Generator is ideal for solving obsolescence and enhancing the performance of new or pre-existing ATE systems. The instrument has been designed with several notable features:

- VXI Size C Three-Slot Enclosure
- Software control using SCPI serial commands via DLL library
- Built-In Test
- Corrosion Resistant Design IAW MIL-HDBK-454 Guidelines 15 and 16
- EMI/EMC compliance IAW MIL-STD-461E Table V and VXI EMC specification Requirements for IEEE 1155-1992



**Science and Engineering  
Services, LLC**

MATURE RF DESIGN

DESIGNED FOR USE WITH ANY VXI TESTER

FIELD PROVEN DESIGN ARCHITECTURE

## SPECIFICATIONS

### ELECTRICAL

- Frequency Range: 10 MHz to 18 GHz
- Frequency Resolution: 1 Hz
- Spurious Noise: < -34 dBc
- Subharmonics: None
- Power Max: +12.5 dBm
- Internal or External 10 MHz Clock Reference (Auto Switched)
- Amplitude Modulation
  - External Input
  - DC Coupled
  - DC to 100 KHz Rate
  - 100% Modulation at 2 Vpp
  - 0 to 90% Depth Range
  - 10 K Ohm Input Impedance
- Frequency Modulation
  - External Input
  - $\pm 1$  MHz FM Deviation Limits for an output frequency of 10 MHz to 50 MHz
  - $\pm 25$  MHz FM Deviation Limits for an output frequency of 50 MHz to 18 GHz
  - 10 KHz to 1 MHz (3 dB Bandwidth) Rate
  - 2 Vpp modulation voltage corresponds to  $\pm 5$  MHz frequency deviation
  - 600 Ohm Input Impedance
- Pulse Amplitude Modulation
  - External Input
  - TTL-Level Pulse (Logic 1 turns RF Output On)
  - Minimum Pulse Width for Leveled Output: 50 nSec
  - Pulse Repetition Rate: DC to 10 MHz
- Frequency Sweep
  - Dwell Time Range: 0.1 to 32000 Seconds in 0.1 second increment
  - Start/Stop Frequency Range: 10 MHz to 18 GHz
  - Frequency Step Size: 1 Hz to 10 MHz with 1 Hz resolution

### MECHANICAL

- VXI Size C Three-Slot Enclosure
- Weight: 14 lbs
- EMI/EMC Shielding
- 50 Ohm RF Output Impedance
- APC 3.5 Female RF Output Connector
- AM, FM, PULSE and 10 MHz Inputs: BNC Female



### SERVICES AVAILABLE

- Technical Support
- Installation and Setup
- Maintenance
- Application Support
- Hardware and Software Support
- Guaranteed Warranty

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