Time and Frequency Frequency Distribution Unit Model: 8451



Application - Defense (Military) ■ SatCom ■ Wireless

- Range Timing
- Communications Networks
- Satellite Ground Stations
- Station/BITS Clock Distribution
- Test and Measurement Systems

Features

- Frequency and Digital Distribution
- 12 Outputs, Single Input
- 3 Vrms Output Drive Into 50Ω
- Low Spurious and Phase Noise
- 80 dB Port to Port Isolation



Description:

The Model 8451 may be used in a wide variety of signal distribution applications including sine wave, time code, and digital signals, through the range of DC - 10 MHz. Power supply voltages are post regulated and output buffers are all individually regulated, insuring very low output spurious noise levels. Fault sensing is provided on each output channel and all channels are summed together providing one common fault output.

Specifications:

Input Characteristics

Impedance:

Protection:

Level:

	DO 40 MII		
Frequency:	DC - 10 MHz	Fault Status:	Fault interface is 74HC type, logic

 50Ω nominal level is "low" for fault

Temperature:

Level: 1.0 Vrms nominal Dimensions: 1.72 High (1U), 19 inches wide,

and 14 inches deep (exclusive of

00 C to +500 C

connectors and handles) **Output Characteristics** Weight: 9.5 pounds with optional slides

Channels: Twelve Finish: Anodized clear, brushed aluminum

Impedance: 50Ω nominal Operating

Humidity: 95% relative, non-condensing, individually adjustable

Harmonic with modules

Power: Single power supply standard or Distortion: ≤ -40dBc at 3.0 Vrms Output

redundant power supplies optional. Non-Harmonic 100 - 240 VAC, 48 - 440 Hz. 35 watts Distortion:

≥ -80dBc at 3.0 Vrms Output **Isolation Output** maximum power consumption.

to Output: -80 dBc @ 10 MHz IEC-320 power input connector

Phase Noise: -150 dBc noise floor Signal/Fault Connectors: **BNC**

Protection: Outputs may be shorted to ground

Protected to 24 V peak to peak

0.0 to 3.0 Vrms, each output

are thermally protected

with no damage. Output buffers

Specifications subject to change without notice.