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MODEL 31 - SERIES
R.F. AMPLIFIERS

DATA SHEET 769

MODEL 31 - SERIES R.F. AMPLIFIERS FOR ELECTRO-OPTICS

FEATURES:

- High stability
- Frequency Ranges from:
400KHz to 1 GHz
- Integrated Heat Sink
- Medium High Power
Gain Ranges from:
24dB to 29dB
- DC powered with AC option

The Quantum Technology Model 31-series R.F. Amplifiers are high quality, high stability amplifiers that are commonly used in electro-optic applications where no compromising can be made. These units offer the user ease of operation with high efficiency over a broadband. The table below, Table-1, shows the three standard units offered. These units cover the frequencies from 400KHz through 1 GHz depending on unit selected. The input power requirements for these units are DC voltages. There is an optional power supply available for these units for A.C. Mains operation.

The Quantum Technology's R.F. Amplifiers are utilized for various modulation systems requiring high frequency modulation. The Amplifiers are available with Bias option which supplies 0-300VDC to manually bias intensity EOMS at the 50% optical bias point by for optimum symmetrical modulation. The typical VSWR specifications are indicated in Table-1 also.

These units are supplied with integral heat sinks that can be cooled by either convection or forced air by a fan depending on its application and environment.

Special configurations are available. Please consult Quantum Technology directly for information.

TABLE - 1

Model: 31-150-1W	Freq. Range: 0.4-150MHz	Gain: 24dB Flatness: +1dB	Input Power: 24VDC @ 0.6A	VSWR: 2:1 (typical)	A.C. Adapter: Model: 31-AC
Model: 31-500-2W	Freq. Range: 5-500MHz	Gain: 29dB Flatness: +1dB	Input Power: 24VDC @ 0.6A	VSWR: 2:1 (typical)	A.C. Adapter: Model: 31-AC
Model: 31-1000-1W	Freq. Range: 10-1000MHz	Gain: 24dB Flatness: +1dB	Input Power: 24VDC @ 0.6A	VSWR: 2:1 (typical)	A.C. Adapter: Model: 31-AC

NOTES:

- 1) The A.C. Line level must be given as a dash number for the A.C. Adapter.
For example: Model: 31-AC-120 - converts 120Vrms into 24VDC @ 600 mA.
- 2) Maximum power input:
 - Model 31-150: 10dBm input
 - Model 31-500: 10dBm input
 - Model 31-1000: 20dBm input
- 3) Maximum power output: 1 Watt and 2 Watt designated by dash no.
- 4) DC Bias option: Recommended for Intensity EOMs - Add -Bias, ex: Model 31-15-1W-Bias