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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:
 - 16db to 24db
 - 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 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	Freq. Range: 0.4-150MHz	Gain: 24dB Flatness: +1 dB	Input Power: 24VDC @ 0.6A	VSWR (typical) 2:1	A.C. Adapter: Model: 31-AC
Model: 31- 500	Freq. Range: 2-500MHz	Gain: 16dB Flatness: +1 dB	Input Power: 24VDC @ 0.6A	VSWR (typical) 2:1	A.C. Adapter: Model: 31-AC
Model 31- 1000	Freq. Range: 10-1000MHz	Gain: 16dB Flatness: +1 dB	Input Power: 24VDC @ 0.6A	VSWR (typical) 2:1	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 26VDC @ 600 mA.

2) Maximum power input: **Model 31-150: 10dBm input**
Model 31-500: 15dBm input
Model 31-1000: 20dBm input