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MODEL 3520
4 – 520 MHz DRIVERS

DATA SHEET 778

MODEL 3520

The electro-optical modulator driver **MODEL 3520** is a high bandwidth amplifier designed to drive electro-optic modulators produced by Quantum Technology, manufacturers of a complete wide range of E-O Modulation Systems, Pulse Picker Systems, and Q-Switching systems.

SPECIFICATIONS:

Bandwidth (BW):	4 MHz to 520 MHz (-3dB)
Average Gain:	50 dB +/- 1.5 dB
Rise & Fall Times (10 % to 90 % Points):	1.8 nsec
Gain:	>50 dB + 1.5 dB (typical)
Modulation:	100% @ 514 nm
Gain Flatness:	+/- 1.5 dB
Cable length driver to EOM:	6 ft (1.8 m) typical cable length
Maximum output voltage:	140Vpp into 50-ohms
Harmonic distortion:	> - 23 dB @ full output
AC power:	100-230 VAC, 50/60Hz

Typical recommended modulator: Model 327-80 BW to 100 MHz (See DATA SHEET 752). Other varieties of modulators to 150 MHz, 200 MHz, and 520 MHz are available.

TABLE – 1

MODEL	DESCRIPTION
3520A	Intended for intensity modulation with a Manual Bias of + / - 300VDC (included with system).
3520P	Intended generally for phase modulation, this is used where no bias voltage is required. (Manual +/- 300VDC bias not included with system).
3520DC	DC Option added to system with the + / - 300VDC Manual Bias, which enables the overall system's optical response to be DC coupled up to the selected passband of the selected Modulator.

Option Model 33C, continuous Auto Bias option for maintaining the E-O bias at the 50% point, and providing automatic adjustment of the DC Bias required to compensate for thermal drift in the E-O modulator due to RF power and/or ambient thermal heating variations.

The Quantum Technology drivers are well suited for electro-optic modulation requiring high accuracy and performance. For many years Quantum Technology Inc has produced electro-optic drivers, assuring you of the highest workmanship and design. Please call Quantum Technology Engineers with any questions about E-O Modulation systems; we have the answers.