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MODEL MDA-80
AMPLIFIER-PULSE PICKER
DRIVER SYSTEM FOR
RESONANT EOMS

DATA SHEET 769D

MODEL MDA-80 AMPLIFIER-PULSE PICKER FOR RESONANT REM-101A EOMS R.F. AMPLIFIERS FOR ELECTRO-OPTICS

FEATURES:

- 65-110 MHz Mode Locked Lasers
- Divide by 2 for Sine Wave Drive
- Mates with REM-101A Amplitude EOMs
- Adjustable Phase Delay and Bias

The Quantum Technology Model MDA-80D Resonant EOM Pulse Picker System Driver is a high quality, high stability driver that has makes it possible to do a Divide by 2 Pulse Picking for commonly used 80MHz ML lasers. These are commonly used in electro-optic applications where no compromising can be made. This system offer the user ease of operation with Quantum's high efficiency resonant EOM REM-101A over a broadband range. It can accommodate 80 MHz Mode Locked Photodiode input or high level electrical Mode Locker output signal which, typically, is half the ML laser output frequency. An adjustable Phase Delay circuit electrically sets the EOM output to coincide with Mode Locked laser pulses in the Modulator to allow only every alternate optical pulse to transmit through. A convenient Gain control manually sets the optimum level for 100% modulation. The MDA-80's Bias Control supplies up to +/-400VDC to manually bias intensity EOMs at the 50% optical bias point for optimum symmetrical modulation. The MDA-80A Amplifier has the same bias control as the MDA-80D without the divide by 2 circuit on the front and Phase Delay circuit. If the Phase Delay option is needed please let us know as it can easily be added. A 24VDC power supply is available for these units for A.C. mains operation.

The Quantum Technology's MDA-40 has special configurations which are available such as higher Driver power, or higher frequency Mode Locked Laser Pulse Picking up to 200MHz.

Please consult Quantum Technology directly for information.

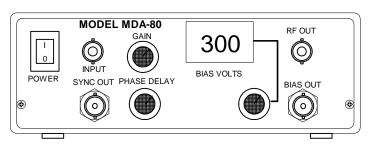
MODEL MDA-40 SPECIFICATION

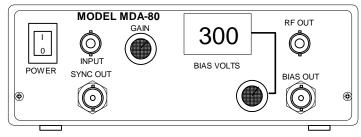
Parameter	
Mode Locked Frequency Range	65-110 MHz
Input Sensitivity @ 50ohms	<100mV-1Vpk, Photo diode input
Adj Phase Delay Range	>15ns@80MHz input
Adj Bias Range	+/-300V
Output Power	>2Watt@ 50 ohms
Size	7.25x2.5x9.5 (WxHxD, inch)
Power Requirements	24VDC, 30W
ORDER Options:	MDA-40A (Amplifier only, without Divide by 2)
	MDA-40D (with Divide by 2 input for Pulse Picker)

MODEL MDA-80

FRONT VIEW

FRONT VIEW

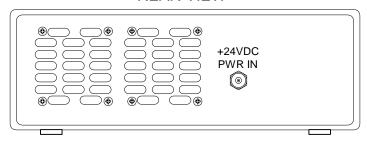




MODEL MDA-80D: WITH DIVIDE/2 FEATURE

MODEL MDA-80A: WITH AMPLIFIER ONLY FEATURE

REAR VIEW



MODEL MDA-80D RESONANT EOM REM-101A PULSE PICKER DRIVER SYSTEM

MODEL MDA-80A RESONANT EOM REM-101A DRIVER