



Fiber Pigtailed Acousto-Optic Modulators

The Brimrose all fiber optic electronically controllable optical modulator utilizes a unique proprietary technology. Our fiber optic modulators are rugged and compact. This product is electronically programmable using a microprocessor connected to our RF driver unit.

Also the Fiber Optic Modulators can be computer controlled via RS232 or TCP/IP ethernet controllable for inline field applications. The component is housed in a compact, environmentally stable package that offers superior resistance to humidity and temperature and is suitable for mounting within an amplifier module.

Application:

- Fast Attenuator
- EDFA power control
- Gain tilt control
- Loop-back switch

General Specifications

Switching time	< 100 nsec
on/off extinction	> 50dB
Back reflection	< -50dB
Insertion loss	< 2.5dB
Low electric power consumption	< 23dBm
Wavelengths	1300nm, 1550nm
Operating wavelength range	> 60nm



Fiber Pigtailed Acousto-Optic Modulators (360-900 nm)						
Model Number	Wavelength [nm]	Center Frequency [MHz]	Rise Time [ns]	Modulation Bandwidth [MHz]	Insertion Loss [dB]	Fiber Type
TEM-125-4.8-116-852-2FP	852	125	116	4.8	2.2-2.7	5.1 μ core
TEM-1100-270-2-488-2FP	488	1100	2	270	8.7	3.1 μ core

Fiber Pigtailed Acousto-Optic Modulators (980-1600 nm)						
Model Number	Wavelength [nm]	Center Frequency [MHz]	Rise Time [ns]	Modulation Bandwidth [MHz]	Insertion Loss [dB]	Fiber Type
IPM-500-22-25-1300-3FP	1300	500	25	22	2.3-5.9	9 μ core
IPM-500-22-25-1550-3FP	1550	500	25	22	2.3-7.0	9 μ core

Fiber Pigtailed Acousto-Optic Modulators (980-2900 nm)						
Model Number	Wavelength [nm]	Center Frequency [MHz]	Rise Time [ns]	Modulation Bandwidth [MHz]	Insertion Loss [dB]	Fiber Type
AMM-55-3-170-1300-2FP	1300	55	170	3	2.0-2.2	9 μ core
AMM-55-3.2-170-1550-2FP	1550	55	170	3.2	2.0-2.2	9 μ core
AMM-100-8-70-1300-3FP	1300	100	70	8	2.3-3.2	9 μ core
AMM-100-8-70-1550-3FP	1550	100	70	8	2.3-3.6	9 μ core