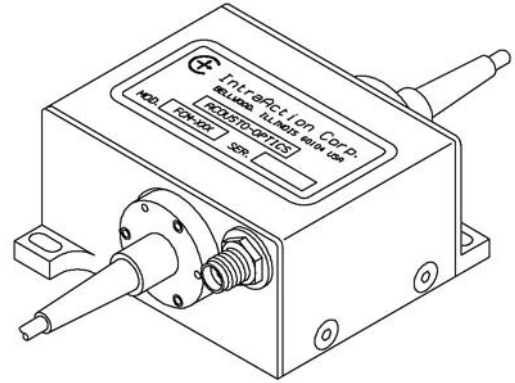


MODEL FCM SERIES FIBER PIGTAILED ACOUSTO-OPTIC MODULATOR/ FREQUENCY SHIFTER

- NEAR IR WAVELENGTH RANGE
- OPTICAL FREQUENCY SHIFTING
- CHOICE OF FREQUENCY SHIFT³
- INTENSITY MODULATION
- LOW RF DRIVE POWER
- HIGH RELIABILITY



SPECIFICATIONS				
Acousto-optic Material	AMTIR-I Chalcogenide Glass			
Optical Fiber ¹	Singlemode			
Fiber Connector ¹	FC-PC			
Modulation Bandwidth (-3dB)	4.0 MHz			
Optical Rise Time	120 ns			
Insertion Loss ²	< 2.0 dB			
Extinction Ratio (On/Off)	> 55 dB			
Optical Polarization	Any			
Input Impedance / VSWR	50 ohms / 1.2:1			
Size (less connectors)	2.24(5.7)D x 1.10(2.8)H x 2.29(5.82)W inches(cm)			
MODEL	FCM-40IE6C	FCM-50IE6C	FCM-80IE6C	FCM-100IE6C
RF Frequency ³	40 MHz	50 MHz	80 MHz	100 MHz
Optical Frequency Shift ^{3,4}	+ 40 MHz	+ 50 MHz	+ 80 MHz	+ 100 MHz
Optical Wavelength	1.3 μm	1.3 μm	1.3 μm	1.3 μm
RF Drive Power ⁵	500 mWatts	500 mWatts	700 mWatts	1.0 Watt
MODEL	FCM-40IE5C	FCM-50IE5C	FCM-80IE5C	FCM-100IE5C
RF Frequency ³	40 MHz	50 MHz	80 MHz	100 MHz
Optical Frequency Shift ^{3,4}	+ 40 MHz	+ 50 MHz	+ 80 MHz	+ 100 MHz
Optical Wavelength	1.55 μm	1.55 μm	1.55 μm	1.55 μm
RF Drive Power ⁵	700 mW	1.0 Watt	1.0 Watts	1.5 Watt

¹ Other optical fiber such as polarization maintaining, and other connectors such as FC-APC are also available.

² Does not include connector losses.

³ User defined frequencies available from 40 MHz to 250 MHz. Note: Specifications change with frequency.

⁴ Negative frequency shift available. Specify when ordering.

⁵ Single frequency or phase locked dual frequency, laboratory, or OEM drivers are available. High extinction drivers also available.