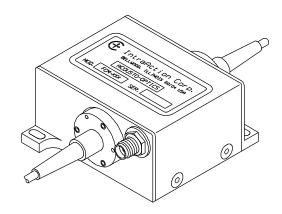


FREQUENCY SHIFTER

3719 Warren Avenue · Bellwood, IL 60104 · 708 547-6644 · Fax 708 547-0687 · iac@intraaction.com

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

Optical Fiber¹

Fiber Connector¹

Modulation Bandwidth (-3dB)

Optical Rise Time

Insertion Loss²

Extinction Ratio (On/Off)

Optical Polarization

Input Impedance / VSWR

Size (less connectors)

AMTIR-1 Chalcogenide Glass

Singlemode

FC-PC

4.0 MHz

120 nsec

< 2.0 dB

> 55 dB

any

50 Ohms / 1.2:1

2.24(5.7)D x 1.10(2.8)H x 2.29(5.82)W inches(cm)

MODEL	FCM-401E6C	FCM-501E6C	<u>FCM-801E6C</u>	FCM-1001E6C
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-401E5C	FCM-501E5C	FCM-801E5C	FCM-1001E5C
RF Frequency ³	40 MHz	50 MHz	80 MHz	100 MHz
RF Frequency ³ Optical Frequency Shift ^{3,4}	40 MHz + 40 MHz	50 MHz + 50 MHz	80 MHz + 80 MHz	100 MHz +100 MHz
	-			

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.

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