

# MA40-IIR55-Fio-SM-J1-A-Ic2

## PRODUCT OVERVIEW

This compact fiber pigtailed device is meant for a single-wavelength operation in [1500-1600] nm. It is made of doped glass which provide interesting features such as insensitivity to polarisation and low RF power consumption. It can be used as intensity modulator as well as fixed frequency shifters for telecommunication and sensing applications. Its compactness, reliability and high performance will make this modulator a good candidate for most industrial applications.

## FEATURES

- No polarisation dependent losses.
- Low RF power.
- Low insertion losses.
- High reliability.
- Compact design.



## SPECIFICATIONS (T=25°C)

PARAMETER	RATING	UNIT
Material – Acoustic velocity	Chalcogenide Glass – 2520	m/s
Optical Wavelength range ( $\lambda$ )*	1500-1600*	nm
Carrier Frequency / Frequency shift	+ 40 (Upshifted)	MHz
Insertion losses (IL)	$\leq 2.5$	dB
Input / Output Polarization	Random/Random	
Rise/Fall time	55	ns
Polarisation Mode Dispersion (PMD)	N.A	ps
Polarisation dependence losses (PDL)	N.A	dB
Static Extinction Ratio	$\geq 40$	dB
Optical power CW	$\leq 20$	mW
Jacket type	900 $\mu$ m Hytrel Tubing	
Fiber type	SMF 28 (PM 1550 on request)	
Fiber connectors	FC/APC	
Pigtailed Length IN/OUT	1	m
Input Impedance	50	$\Omega$
V.S.W.R	1.2/1	
RF Power (P)	0.3	W
RF Connector	SMC	
Size	60 x 40 x 16	mm
Weight	60	g
Packaging	IN PRO 330	
RoHS Compliance	Yes	

\*Single wavelength to be specified within that range.

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## OUTLINE DRAWING, mm

