

# MT80-IIR30-Fio-xx0,5-J1-A-Ic2

## PRODUCT OVERVIEW

This compact fiber pigtailed device is meant for a single-wavelength operation in [1500-1600] nm. It can be used for intensity modulation with a rise time of 30 ns as well as fixed frequency shifting of 80 MHz. Its compactness, reliability and high performance will make this modulator a good candidate for industrial application.

## FEATURES

- High Extinction ratio, small rise/fall time.
- High reliability.
- PM 1550 or SMF 28 fibers
- Compact design.



## SPECIFICATIONS (T=25°C)

PARAMETER	RATING	UNIT
Material	TeO <sub>2</sub> -L - 4200	m/s
Optical Wavelength range (λ)*	1500-1600*	nm
Carrier Frequency / Frequency shift	+ 80 (Upshifted)	MHz
Insertion losses (IL)	≤3	dB
Input / Output Polarization	Linear/Linear	
Rise/Fall time	30	ns
Analog Amplitude modulation bandwidth -3 dB	16	MHz
Polarisation Extinction Ratio (PER)	≥18	dB
Polarisation dependence losses (PDL)	≤0.5	dB
Static Extinction Ratio	≥45	dB
Optical power CW	≤500	mW
Jacket type	900 μm Hytel Tubing	
Fiber type	PM1550 or SMF-28	
Fiber connectors**	FC/APC**	
Pigtailed Length IN/OUT	1	m
Input impedance	50	Ω
V.S.W.R	1.2/1	
RF Power (P)	≤2.5	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.

\*\*While internal termination is designed for high optical power, we recommend removing the connectors and splicing the fiber for full power optical power handling.

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## OUTLINE DRAWING, mm

