

# MTxx-IRxx-Fio-xx

## PRODUCT OVERVIEW

These fiber pigtailed devices are meant to be used for a single wavelength within their range of operation [1290-1650 nm]. They can be used for intensity modulation, fixed or variable frequency shifting, pulse picking or q-switching. AA offers a complete range with different carrier frequencies, different rise times, input optical power. Moreover, in order to meet most requirements, user can select the fiber type, fiber jacket and fiber connectors among the proposed ones.

## FEATURES

- High Speed.
- High Extinction ratio.
- Robust & versatile.

## SPECIFICATIONS (T=25°C)

PARAMETER	RATING	UNIT
Material	TeO <sub>2</sub> -L - 4200	m/s
Optical Wavelength range (λ)*	1290-1650*	nm
Input / Output Polarization	Linear (PM fibres), random (SM fibres)	
Jacket type	900 μm Hytel Tubing or 3 mm PVC or 3 mm Stainless Steel	
Fiber type	SMF 28 or PM1550 or PM1300	
Fiber connectors	FC/APC or Super FC/PC	
Pigtailed Length IN/OUT	1	m
Input impedance	50	Ω
V.S.W.R	1.2/1	
RF Connector	SMA	
Size	89 x 46.6 x 32.5	mm
Weight	250	g
Packaging	IN PRO 334	
RoHS Compliance	Yes	

\*Single wavelength to be specified within that range.



# MTxx-IIRxx-Fio-xx

## MODELS

	MT40-IIR80-Fio-xx	MT80-IIR30-Fio-xx	MT110-IIR20-Fio-xx	MT160-IIR10-Fio-xx	MT200-IIR30-Fio-xx
Frequency Shift (MHz)	+40 or -40	+80 or -80	+110 or -110	+160 or -160	+200 or -200
Insertion losses (dB)	≤3	≤3	≤4	≤8	≤8
PDL Polarisation Dependent Losses (dB)	≤0.5	≤0.5	≤1	≤1.2	≤1.2
Static Extinction Ratio (dB)	≥40	≥45	≥45	≥45	≥45
Rise/fall time (ns)	80	30	20	10	30
Max optical power (W)**	0.5 or 5	0.5 or 5	0.5 or 5	0.5 or 1	0.5 or 5
Maximum RF power (W)	≤2.5	≤2.5	≤2.5	≤2.2	≤2.2
Variable Frequency Shift	On Request	On Request	On Request	On Request	On Request

\*\*Internal termination is designed for high optical power handling and we recommend splicing the fiber for full power optical power handling.

## OUTLINE DRAWING, mm

