

MT110-IR25-Fio-xx

PRODUCT OVERVIEW

This fiber pigtailed device is meant to be used for a single wavelength within their range of operation [1000–1100 nm]. It offers fiber pigtailed for both the diffracted and undiffracted orders. It can be used for intensity modulation, fixed or variable frequency shifting, pulse picking or Q-switching. In order to meet most requirements, user can select the fiber type, fiber jacket and fiber connectors among the proposed ones.

FEATURES

- High speed.
- Diffracted and undiffracted order fiber pigtailed.
- High Extinction ratio
- Robust & Versatile



SPECIFICATIONS (T=25°C)

PARAMETER	RATING	UNIT
Material – Acoustic velocity	Te02[L]- 4200	m/s
Optical Wavelength range (λ)*	1000-1100 *	nm
Carrier Frequency / Frequency shift	+ 110 (Upshifted) or -110 (downshifted)	MHz
Insertion losses (IL)	Diffracted order: ≤ 3 Undiffracted order: ≤ 2.5	dB
Rise/Fall time	25	ns
Analog Amplitude modulation bandwidth -3 dB	19	MHz
Polarisation dependence losses (PDL)	≤ 0.5	dB
Static Extinction Ratio	Diffracted order: ≥ 45 Undiffracted order: ≥ 10	dB
Optical power CW	0.5 or 5	W
Jacket type	900 μ m Hytrel Tubing or 3 mm PVC or Stainless Steel	
Fiber type	H11060 or PM980	
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 Power (P)	≤ 2	W
RF Connector	SMA	
Size	100 x 65 x 39	mm
Weight	300	g
Packaging	IN PRO 137	
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.

