

### Product Overview

This fiber pigtailed device is meant to be used for a single wavelength within the range of operation [1290-1650 nm]. It can be used for intensity modulation or frequency shifting. Common applications include optical shutter in telecommunications, Lidar and many others. In order to meet most requirements, user can select the fiber type, fiber jacket and fiber connectors among the proposed ones.

### Features

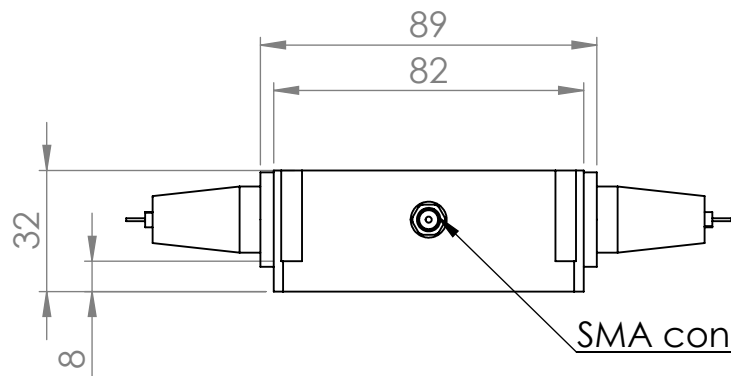
- Polarisation insensitive.
- Low RF power
- High extinction ratio
- Robust and versatile.



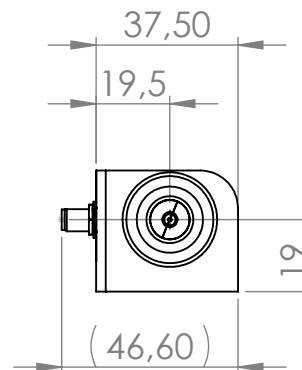
	Units	Min	Nom	Max
Material		<i>Doped Glass</i>		
Optical Wavelength range ( $\lambda$ )	nm	1290		1650
*Carrier Frequency / Frequency shift	MHz	+40 or -40		
Insertion losses (IL)	dB		2	3
Rise/Fall time ( $T_r$ )	ns			120
Analog Amplitude modulation bandwidth ( $F_{-3dB}$ )	MHz			4
Polarisation dependence losses (PDL)	dB		-	
Polarisation Mode Dispersion (PMD)	ps		-	
Static Extinction Ratio	dB	40	45	
Optical power CW	W			0.5
Jacket type		900 $\mu$ m Hytrel tubing or 3mm PVC or 3 mm Stainless Steel		
Fiber type		PM 1550 or SMF 28		
Fiber connectors		FC/APC or Super FC/PC		
Pigtailed length IN/OUT	m	1		
Input impedance	$\Omega$		50	
V.S.W.R			1.2/1	
RF Power (P)	W			0.5
RF Connector		SMA		
Size	mm <sup>3</sup>	89 x 46.6 x 32.5		
Weight	g		250	
Packaging		IN PRO 334		
RoHS Compliance		Yes		

\* On request Frequency shift -35 MHz or + 35 MHz

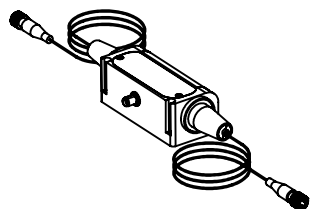
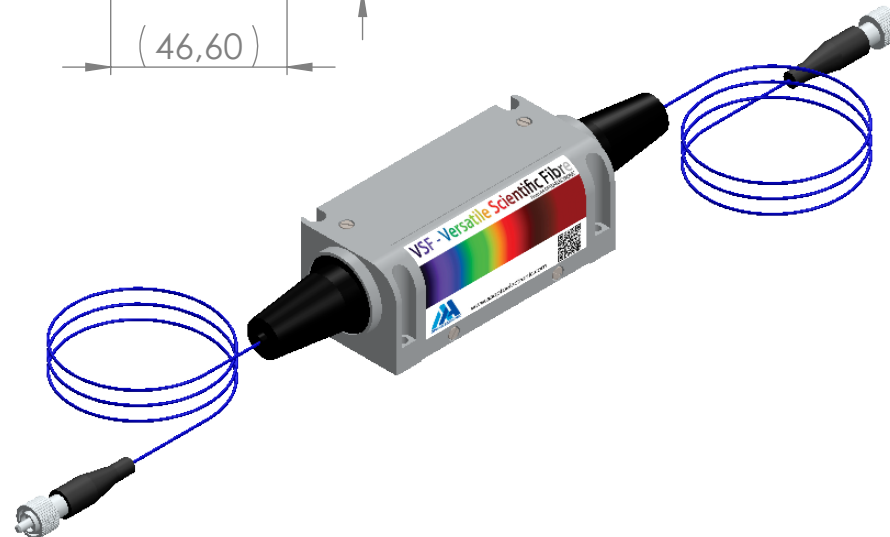
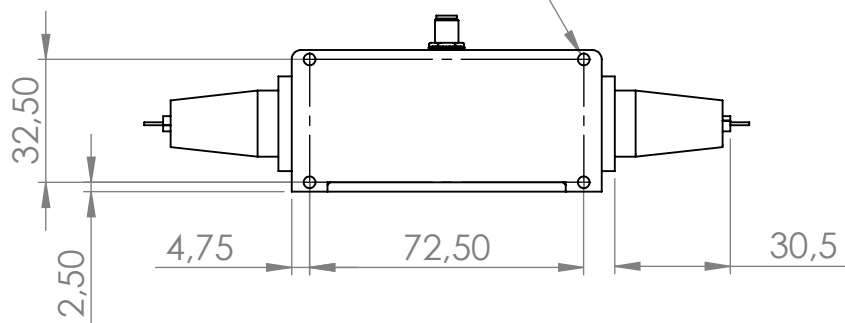
$$* F_{-3dB} = \frac{0.48}{T_r}$$



SMA connector RF input



4x FIXING HOLES FOR SCREWS M2.5



B	28/04/16	G.M	Réhausse fibre de 18 à 19.		
A	17/12/14	G.M	Plan initial / Initial plan		
Indice Index	Date	Auteur Author	Modifications		
Conception Design	GM	Désignation / Designation			
Vérification Checking	YN	PLAN D'INTERFACE			
Tolérance Tolerance	ISO 2768mK	Référence / Reference			
Echelle Scale	1:2	Matière / Material		Traitement / Treatment	Finition / Finish
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		Folio / Sheet		1/1	Indice / Index B

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