

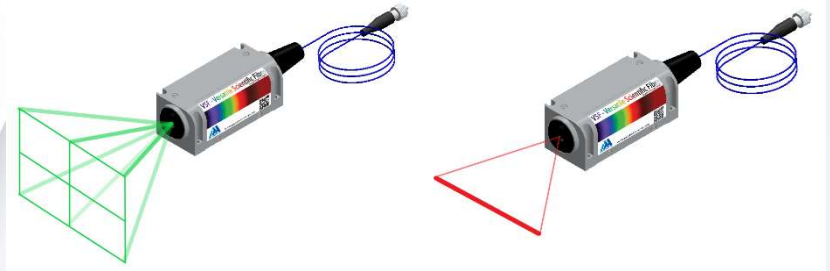
DTSXY-xx-Fi-PM

Product Overview

This high-resolution deflector is equipped with an input polarization maintaining fiber in order to have a plug and play deflector (PnP AOD): no Bragg angle adjustment, no beam alignment. They operate with TeO2 shear mode and hence offer a large scan angle as well as high resolution. Associated to the appropriate RF driver, such AOD provides high precision and accuracy which is required for most applications such as optical tweezers, biomedical diagnostics and many others. They are available with both 1-axis and 2-axis configurations.

FEATURES

- Low RF power
- Input fiber pigtailed
- High diffraction efficiency
- High resolution
- Multi tone operation.



SPECIFICATIONS (T=25°C)

PARAMETER	RATING	UNIT
Material-Acoustic mode-Velocity	TeO2 [S] - 650	m/s
Input / Output Polarization	Linear/90° polarisation flip per axis	
Configuration	1-axis or 2-axis	
Rise/fall time (T _r)	3.3	μs
Access time (T _a)	5	μs
Fiber length	1	m
Fiber Jacket	900μm Hytel tubing	
Fiber connectors	FC/APC	
Input impedance	50	Ω
V.S.W.R.	< 1.2:1	
Weight	Nom 250	g
Packaging	-	
Operating Temperature (non condensing)	+10 to +40	°C
Storage Temperature (non condensing)	-40 to +65	°C
RoHS compliance	Yes	

Some examples for 1-axis & 2-axis versions:

	DTSX(Y)-NIRxx-Fi-PM5	DTSX(Y)-IRxx-Fi-10PLM10	DTSX(Y)-IIRxx-Fi-PM10
Wavelength (nm)	850	1064	1550
Insertion losses (dB)	<4.5	<4.5	<4.5
Frequency range (MHz)	36	30	18
Scan angle(mrd/mrd²)	47	49	43
Resolution (TaΔF)	180	150	90
RF power (W)	≤2	≤2.2	≤2.5
Optical power CW (W)	≤2	≤10	≤10
Fiber Type	Panda PM850	Nufern PM1060L	Panda PM1550