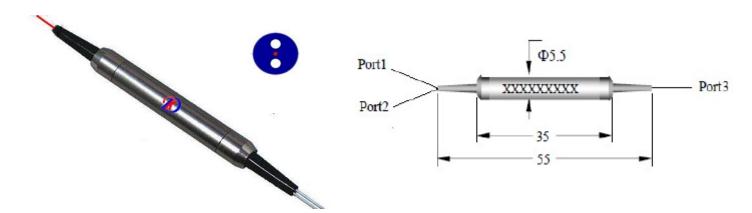
# **DK Photonics Technology Limited**

http://www.dkphotonics.com/

## Polarization Maintaining Filter WDM T1550/R1310&1490nm

The Polarization Maintaining Filter WDM T1550/R1310&1490nm are characterized with low IL, high return loss, high extinction ratio and excellent environmental stability and reliability. They are ideal for polarization maintaining fiber amplifiers, fiber lasers, and high speed communication system and instrumentation applications.

The products are Telcordia qualification tested.



#### **Features**

- Low Insertion Loss
- High Isolation
- · Compact In-Line Package
- High Stability and Reliability

#### **Applications**

- Fiber laser
- Fiber amplifier
- Sensor
- Communications

## **Performance Specifications**

Parameter	Values	
Pass Band Wavelength Range(nm)	1550±15	
IL over Pass Band(dB)	≤0.7	
Pass band Isolation(dB) @ 980+/-20nm	≥30	
Reflection Band Wavelength Range(nm)	1310±40&1490±10	
IL over Reflection Band(dB)	≤0.5	
Reflection Band Isolation(dB) @ 1530~1580nm	≥13	
Extinct Ratio(dB)	≥20	
Optical Return Loss(dB)	≥50	
Power Handling (Max)( (mW)	≤500	
Thermal Stability(dB/℃)	≤0.005	
Tensile Load(N)	≤5	
Fiber Type	PM Panda fiber	
Operating Temperature(°C)	-5 to +70	
Storage Temperature(℃)	-40 to +85	
Package Dimensions (mm)	Ø5.5 x L35	

<sup>\*</sup>Above specifications are for device without connector.

### **Order information**

FWDM-1X2-1111-22-33-44



	111	22	33	44
)	Wavelength	Fiber Diameter	Fiber Length	Connector
	534:1550nm pass/1310&1490nm	25:250um	05:0.5m	00:None
-	reflect	90:900um	08:0.8m	FP: FC/PC
		XX: Others	10:1.0m	FA: FC/APC
			XX:Others	SP: SC/PC
				SA: SC/APC
				LP: LC/PC
				LA: LC/APC
				XX: Others

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<sup>\*</sup>For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower.

<sup>\*</sup>The PM fiber and the connector key are aligned to the slow axis and fast axis is blocked.