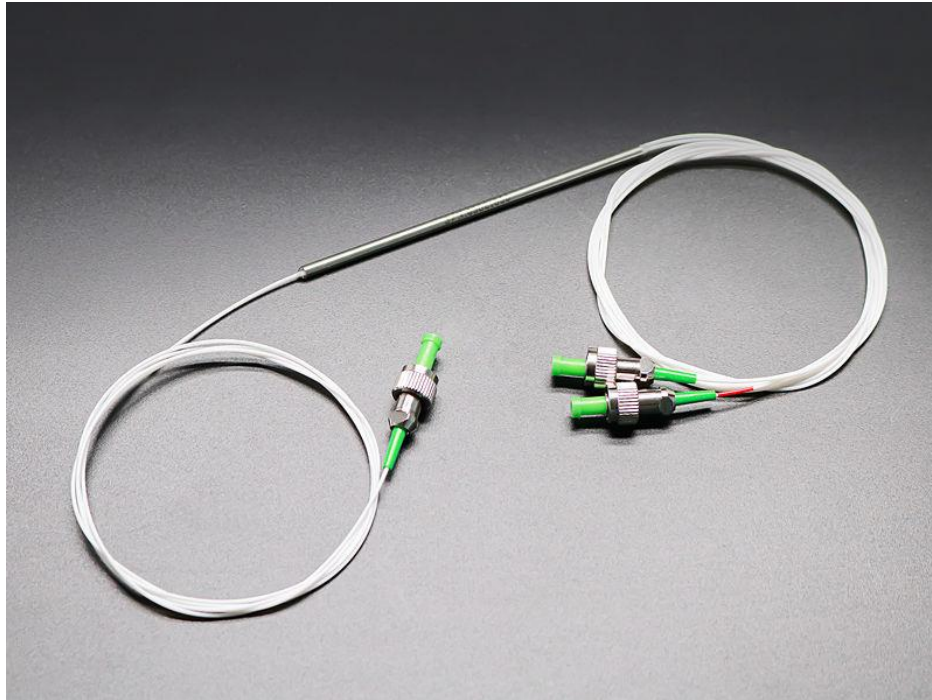


1750/1550nm single-mode Taper Wavelength Division Multiplexer



● Product Description

Idealphotonics' tapered wavelength division multiplexing products for optical communications have the advantages of low loss, low polarization-dependent loss, wide operating band and operating temperature range, and no glue in the optical path. This series of products can be used in wavelength division multiplexing systems, fiber optic sensing systems, and fiber optic optical detection equipment.

● Part Number

NIR-WDM-W1517-1-9-SA

● Product features

Wide operating wavelength range & wide operating temperature range 、 Low insertion loss 、 Polarization dependent loss and small polarization mode dispersion、 High reliability and stability

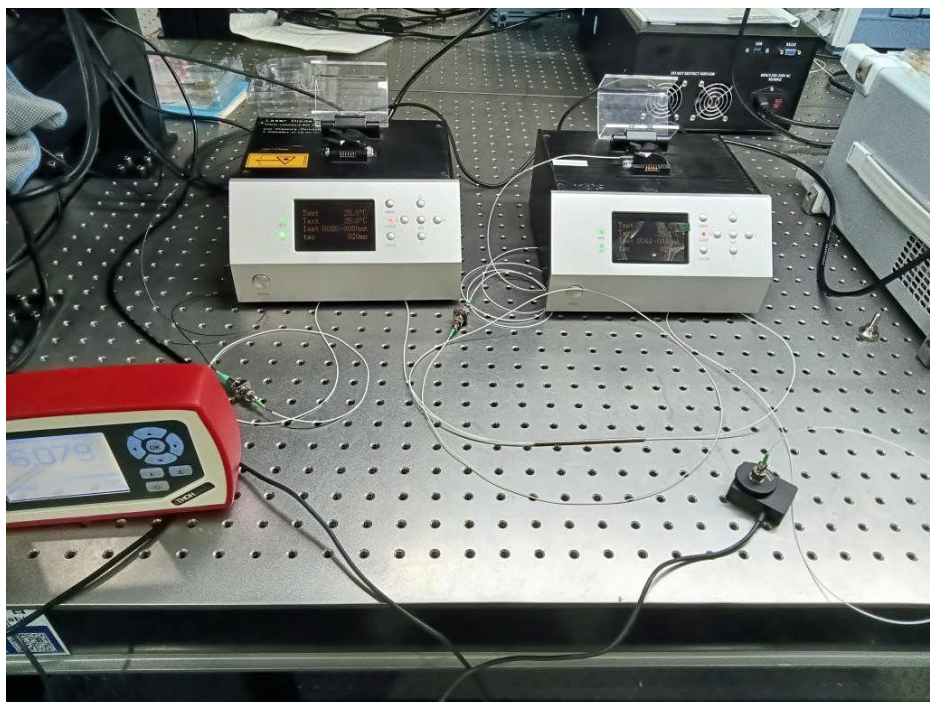
● Application area

WDM system、 Fiber sensing system、 Fiber equipment、 Fiber laser

Parameters

Parameter	Unit	Value
Central wavelength	nm	1550/1750
Operating bandwidth	nm	1550/1750 \pm 5
Insertion loss (port1-port2)	dB	0.19
Insertion loss (port1-port3)	dB	0.27
Polarization-dependent loss	dB	\leq 0.10
Isolation (port1-port2)	dB	19.84
Isolation (port1-port3)	dB	31.40
Return loss (incoming/outgoing)	dB	>55dB
Maximum operating power	mW	500
Fiber type		SMF-28E
Pigtail package and length		0.9mm loose tube , 1m
Connector type		FC/APC
Operating temperature	°C	-5-70°C
Storage temperature	°C	-40-85°C
Dimensional information	mm	Φ 3.0X92

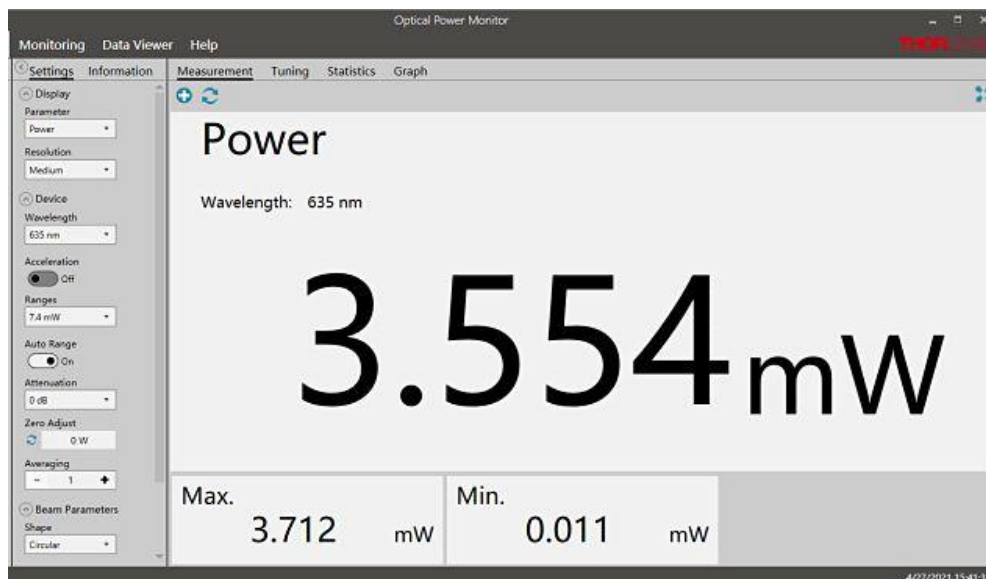
Experimental test (1742/1550nm)



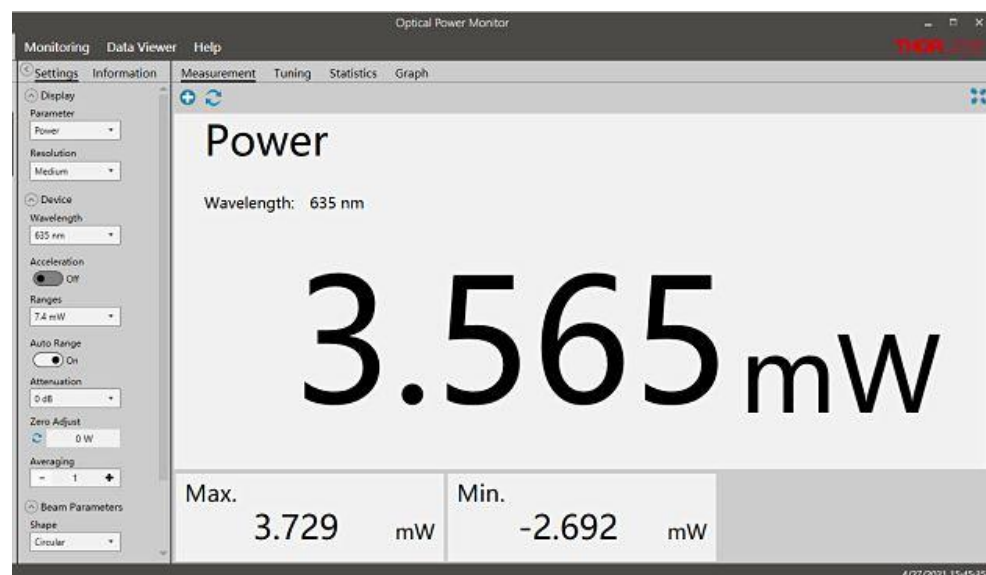
Test steps:

1. Install 1550nm and 1742nm lasers;
2. Connect the 1550nm laser to port 2 of WDM and the 1742nm laser to port 3;
3. Connect the power meter or spectrometer to port 1 to check the output power and test spectrum.

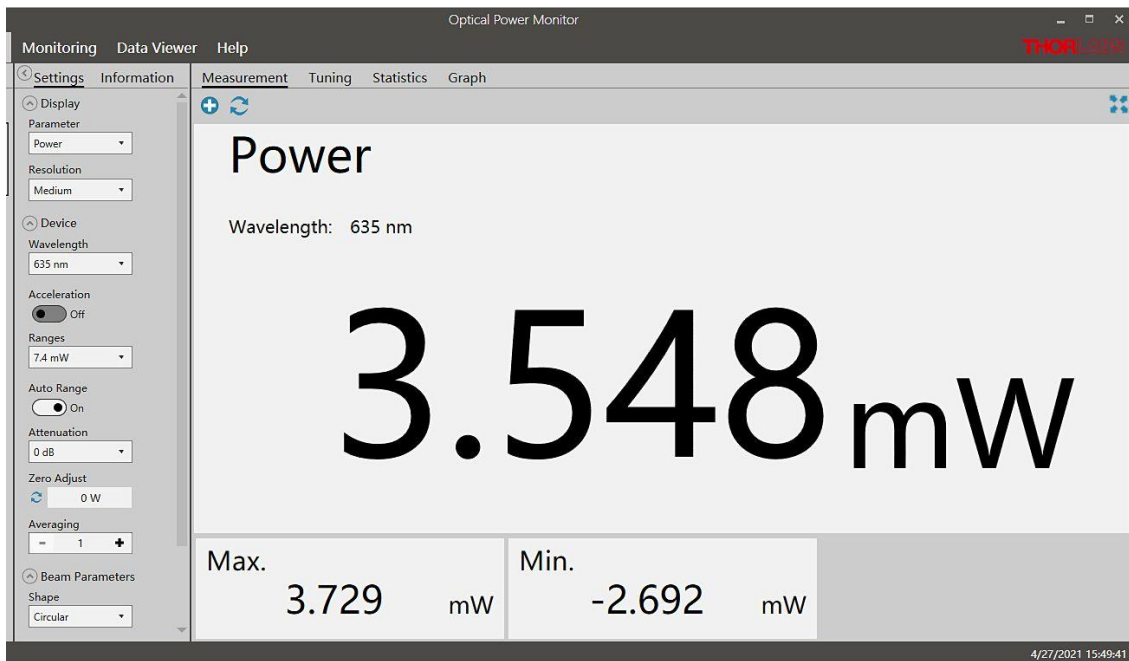
Test Results



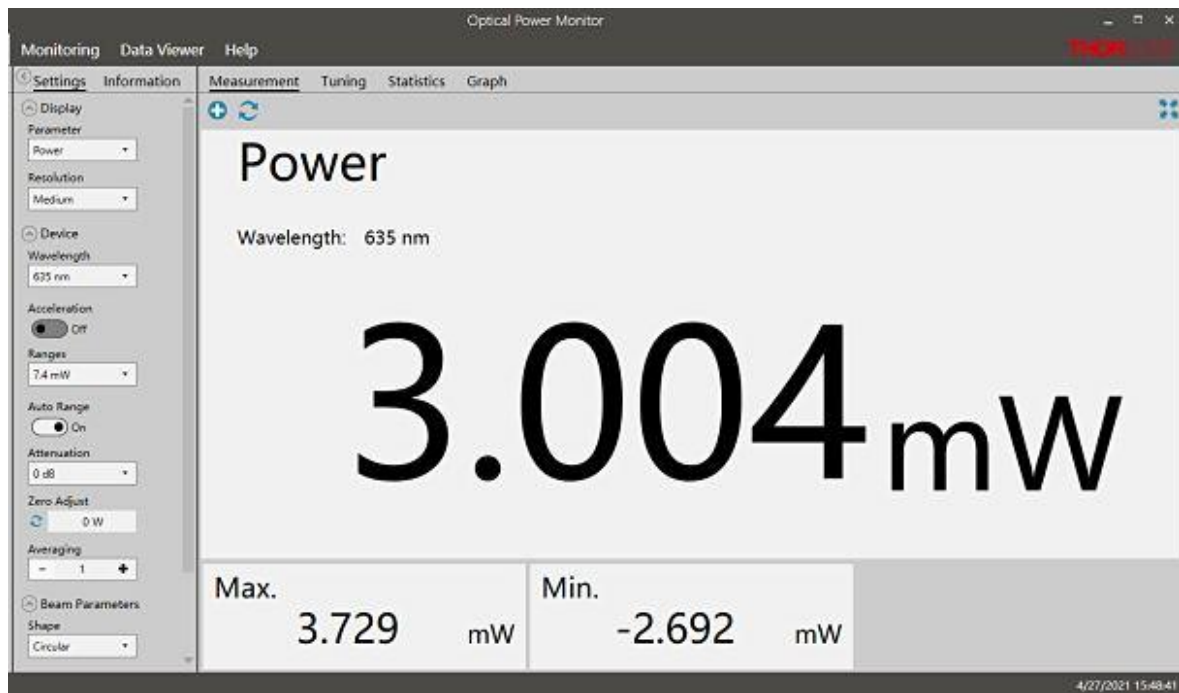
1550nm(laser output power)



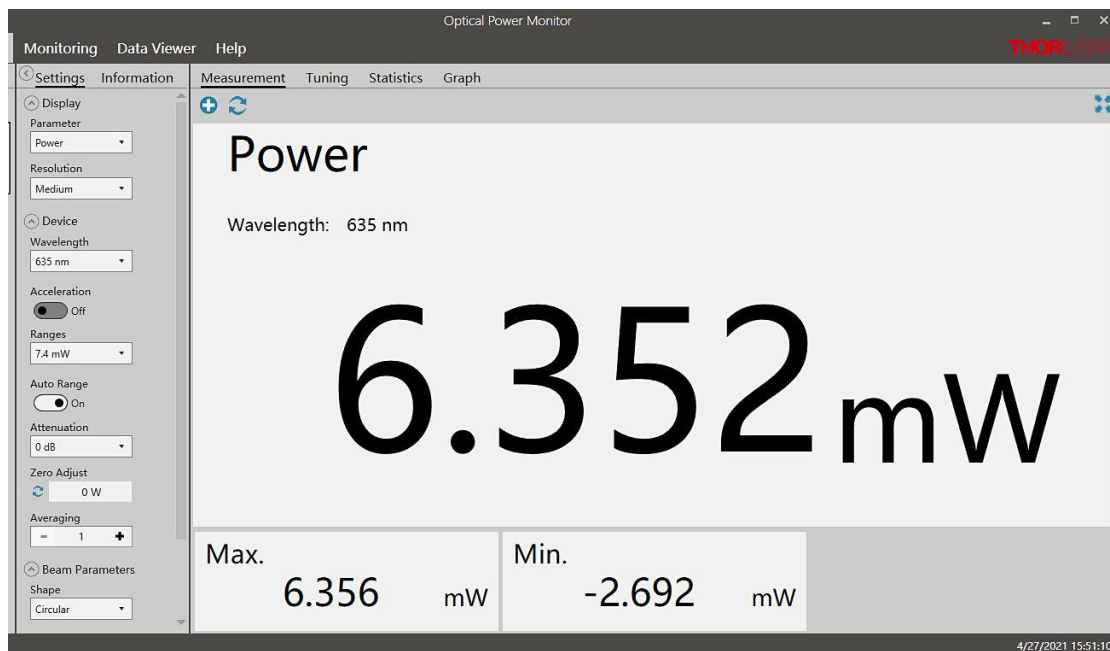
1742nm (laser output power)



1550nm (port 2-port1, only connect to 1550nm)

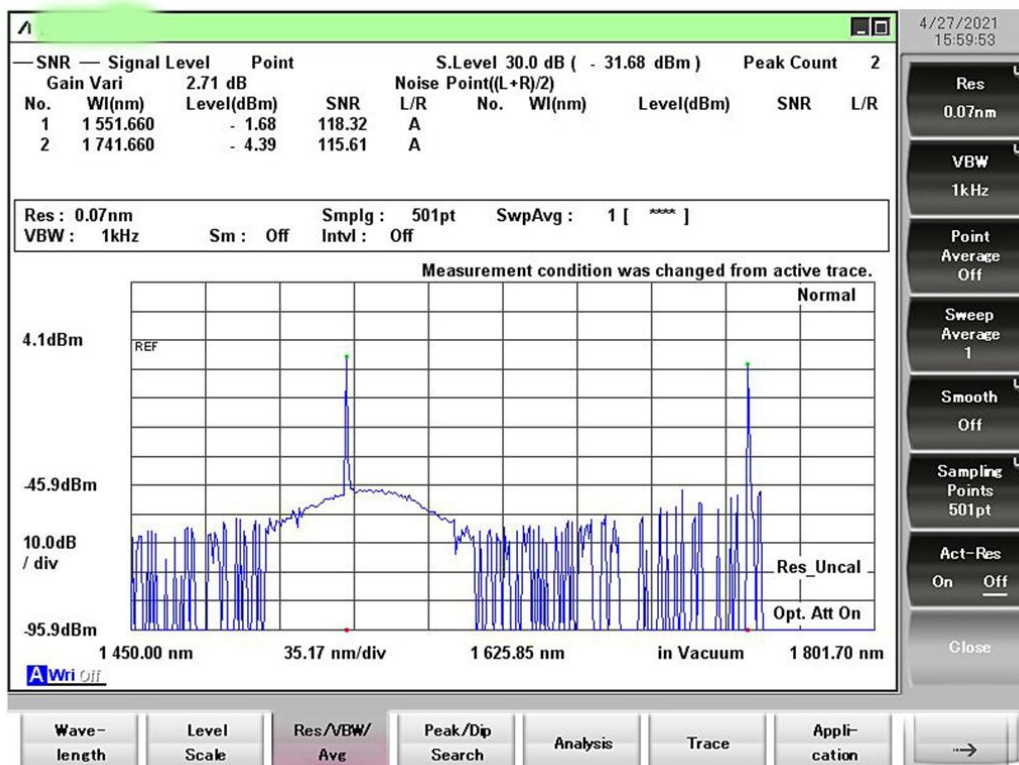


1742nm (port 3-port1, only connect to 1742nm)

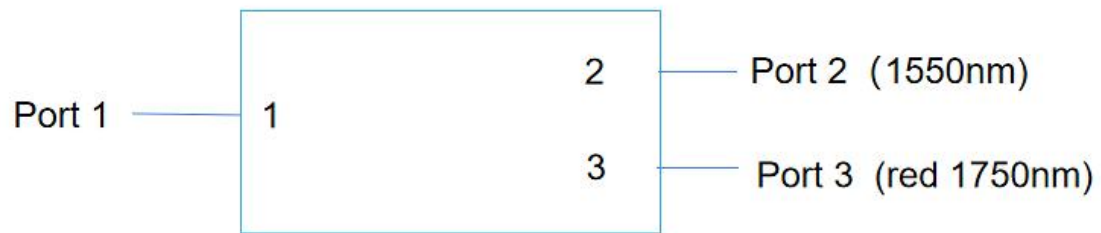


(1550nm, 1742nm are connected at the same time, output power of port1)

Test spectrum



Package form



Ordering Information

Product model: NIR-WDM-W1517-1-9-SA

Working wavelength: 1517: 1550nm/1750nm

Pigtail length: 1: 1 meter

Loose tube: 9: 900um loose tube

Fiber type: SMF-28E

Connector type: FC/APC