

# Inline Isolator

## Description

Based on Browave's core and patented alignment technology, we provide a high performance, compact size and highly reliable package platform with a FIT rate less than 1%, on the basis of over six hundred thousand shipped devices. Applying multi-port technology, Browave can even offer a 2-in-1 isolator with a compact package platform. All platforms in Browave are GR-1221 compliant and RoHS 6 compliant. We also provide high optical power inline isolator and SPEC is available upon request.



## Features

- ▶ Extremely high and stable isolation and return loss
- ▶ Ultra low insertion loss, PDL and PMD
- ▶ Wide operating temperature and wavelength ranges
- ▶ Excellent stability and reliability
- ▶ Epoxy-free optical path
- ▶ Compact design

## Application

- ▶ EDFA
- ▶ CATV fiber optics links
- ▶ DWDM systems
- ▶ Fiber ring lasers
- ▶ Fiber optic test instrumentation

## Specification

The following SPEC are double stage Isolator. Single stage Isolator SPEC is available upon request.

Parameter	Unit		Standard		2-in-1
			Compact	Mini	Double Stage
Central Wavelength *	nm		1550		1550
Isolation (@25°C, CW±15)	Min.	dB	45	45	46
Insertion Loss ( CW±20, 25°C)	Typ.	dB	0.35	0.35	0.4
Insertion Loss( CW±20, -5~75°C)	Max.	dB	0.5	0.5	0.6
Return Loss	Min.	dB	60/60	60/60	60/60
Polarization Dependent Loss	Min.	dB	0.1	0.1	0.1
Cross Talk (In 1-Out 2; In 2-Out 1; In 1-In 2; Out 1-Out 2)	Typ.	dB	-	-	60
Polarization Mode Dispersion (-5~75°C)**	Min.	ps	0.05	0.05	0.05
Optical Power	Min.	mW	500	500	500
Operating Temperature	°C		-5 ~ +75	-5 ~ +75	-5 ~ +75
Storage Temperature Range	°C		-40 ~ +85	-40 ~ +85	-40 ~ +85
Fiber Type	-		ITU-T G.652D or G. 657A1	ITU-T G.652D or G. 657A1	ITU-T G.652D or G. 657A1
Package Dimension (DxL)	mm		5.5 x 33 3.6 x 33	3.0 x 28 3.0 x 23	3.6 x 35 3.0 x 30

\* 1310, 1480, 1590 are optional

\*\* Low PDM: 0.05 ps

