

# Polarization Maintaining Gain Block



## Features

- ✧ Low Polarization Crosstalk
- ✧ Compact
- ✧ Wide Operating Wavelength
- ✧ High Efficiency
- ✧ Low Noise Figure

## Application

- ✧ Loss Compensation in Tx, Rx.
- ✧ Single Channel EDFA

Fujikura's Polarization Maintaining Gain Block (PM-GB) is a single channel passive gain block especially for a polarization maintaining (PM) fiber amplifier, which is composed of only PM-optical components. Based on a combination of Fujikura's PANDA fiber and passive optical components technologies, high optical performance is achieved.

Parameters	Unit	Performance (Example)	
		980nm Pump	1480nm Pump
Application Type	-	980nm Pump	1480nm Pump
Wavelength	nm	1530 – 1563	
Number of Input Channel	ch	1	
Signal Input Power	dBm	-15	-15
Gain	dB	20	20
Signal Output Power	dBm	5	5
Noise Figure	dB	< 5.5	< 7.5
Polarization Extinction Ratio	dB	< -20	< -20
Pump Wavelength	nm	975 – 985	1460 – 1490
Number of Pump Port	-	1	1
Pump Power	mW	> 60	> 80
Operating Temperature	°C	0 – 65	

