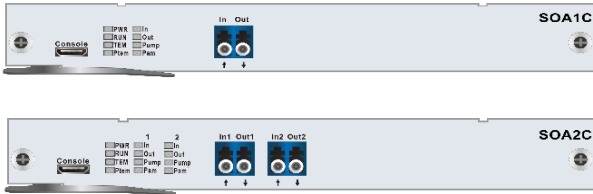




F520 SOA (Semiconductor Optical Amplifier) Series

Part Number: F520-SOAxGxx-x



Overview

The SOA series of Semiconductor Optical Amplifiers which offer O-Band signal amplification in the wavelength range 1290nm~1320nm. It can be used as Booster, In-Line and Pre-amplifier in 10G / 40G / 100G transmission system.

Applications

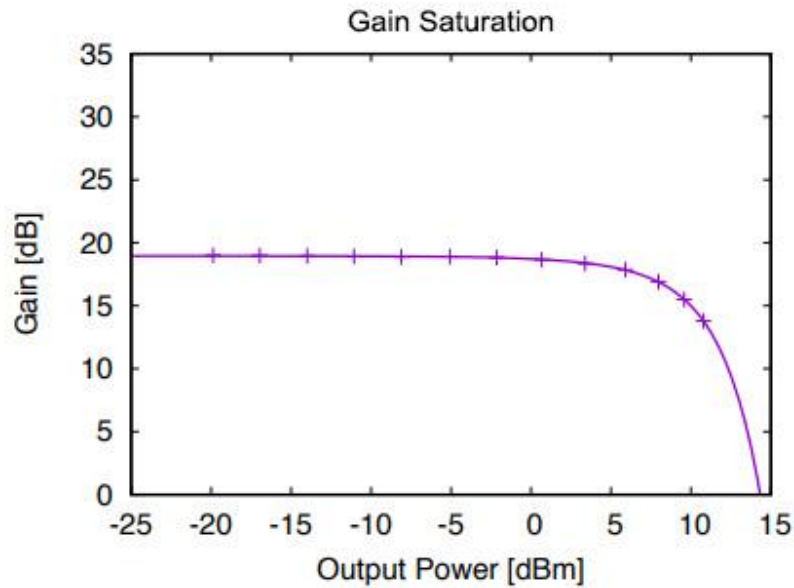
- O-Band optical signal overall amplification
- 40G / 100G 1310nm signal amplification

Features

- Support the O-Band wavelength range of 1290~1320nm
- MAX. Output Power 10dBm
- Support up to 160Gbps data rate.
- APC operation mode
- Low Noise, High Gain
- Option 1 and 2 channel of signal amplification



Curve Diagram



Specification

Parameters	Min	Typ	Max	Unit
Operating Wavelength	1290		1320	nm
Number of Channel (one card)	1 ~ 2			
Output Power		6	10	dBm
Gain	0	14	18	dB
Input Power	-15	-10		dBm
Noise Figure		6.0	7.5	dB
Gain Flatness		1.0	2.0	dB
Polarization Dependence Gain			1.5	dB
Return Loss	45			dB
Power Consumption	≤15			W
Size	191(W) x 253(D) x 20(H)			mm
Operating Temperature	-10 ~ 60			°C
Storage Temperature	-40 ~ 85			°C
Relative Humidity	5 ~ 95			RH%



Ordering Information

Part No.	Description
SOA10G14-1	SOA module, MAX. Output Powe= 10dBm, Gan= 14dB, 1-Channel Amplification
SOA10G14-2	SOA module, MAX. Output Powe= 10dBm, Gan= 14dB, 2-Channel Amplification
SOA10G20-1	SOA module, MAX. Output Powe= 10dBm, Gan= 20dB, 1-Channel Amplification
SOA10G20-2	SOA module, MAX. Output Powe= 10dBm, Gan= 20dB, 2-Channel Amplification

NOTE: MAX. Output Power depends on Input Power and Gain (Operating Current).