

# Semiconductor Optical Amplifier Module

Semiconductor optical amplifier module(SOA) is an optical gain module specially designed for O band. It can be widely utilized in 10G/40G/100G communication system with 10dBm maximum optical power. It can support ACC/APC/AGC control mode.

## Characteristics

- Bandwidth 1260nm - 1340nm
- Maximum optical power 10dBm
- Control mode ACC/APC/AGC
- Customized

## Applications

- Communication system
- 10G/40G/100G system



## Specifications

Product Type	SOA-S-O-6-XX/XX-1-1* <sup>①</sup>		
Parameters	Minimum	Typical	Maximum
Wavelength (nm)	1260	-	1340
Input Power (dBm)	-20.0	-	3.5
Saturated Power (dBm)	-	7	10
Gain (dB)	14	16	20
Gain Flatness (dB)	-	-	2
Noise Figure (dB)	-	7.5	-
Polarization Dependent Gain (dB)	-	-	2
Operating Temperature (°C)	-5	-	55
Storage Temperature (°C)	-40	-	85
Power Supply (V)	4.75	5.00	5.25
Dimensions (mm)	130(L)×100(W)×15(H)		

\*<sup>①</sup> SOA-S-O-6-XX/XX-1-1, the first XX means output gain, and the second XX means gain