SOA Series Semiconductor Optical Amplifier Module

Optical Amplifiers

The semiconductor optical amplifier provides optical gain for weak input signals. Automatic temperature control stabilizes the device for communications links and component characterization.



Technical specifications

Small-signal optical gain @-30 dBm (dB)	18 min. / 22 typ.
Gain variation (dB)	0.5 typ. / 1 max.
Saturated optical output power (dBm)	10 typ.
Noise figure @-20 dBm (dB)	7.0 typ. / 7.5 max.
Output/output optical isolation (dB)	30 min.
Polarization-dependent gain (dB)	0.5 typ. / 1 max.
Polarization mode dispersion (ps)	0.3 max.
Operating temperature range (°C)	0 min. / +40 max.