



CL-SOA-100-RM
100G Semiconductor Optical Amplifiers
RoHS 6 compliant



Features

- Support O-band, 1260~1340nm Band amplification
- Maximum output power can be achieved 13dBm;
- Support three working modes ACC, APC and AGC;
- Through RS232 or SNMP to progress Status monitoring or control Support 19" 1U CL-SOA-100-RM1 (1 slot), 2.5U CL-SOA-100-RM8 (8 slot), 6U CL-SOA-100-RM16 (16 slot Rack Mount)
- 220VAC or -48VDC dual power sup ;

Applications

PART NUMBER	TEMPERATURE
CL-SOA-100-RM	-5°C to 55 °C



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Equipment Description

This manual is a description of the use of the SOA amplifier board. This series of optical amplifiers is the SOA series amplifier products that our company launched, which can be achieved amplification for 1260nm ~ 1340nm wavelength range. It can be easily used in 10G / 40G / 100G transmission system, the maximum can support 160G / s rate. The maximum output power reaches 13dBm.

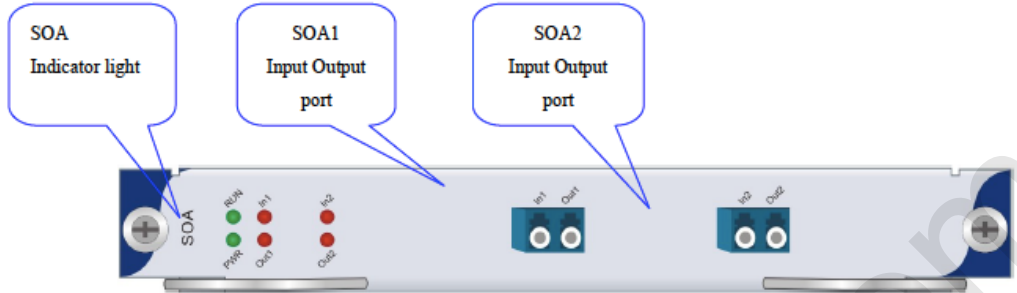
It can be used for power amplification, line amplification, pre-amplification and other occasions. Working modes are ACC, APC and AGC. Can be through RS232, SNMP, etc. to achieve network monitoring and control).

Parameter	condition	Min	Typ	Max	Unit
Wavelength Range	100GE	1290		1320	nm
Input Power		-20		-10	dBm
saturation output power			8	13	dBm
gain			18	29	dB
Flatness				2	dB
noise				7.5	dB
polarization dependent gain				2	dB
operating temperature range		-5		55	°C
operating humidity		5		95	%
storage temperature		-40		85	°C
working voltage		220VAC,-48VDC			V
Power Consumption	1 SOA	10			W
	Single cassette	26.5 (W) × 195 (H) × 252 (D)			mm
	1 slot	482.6 (W) x44.5 (H) x320 (D)			
	8 slot	482.6 (W) x111 (H) x360 (D)			
	16 slot	482.6 (W) x111 (H) x350 (D)			
Interface		LC/SC			



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Products Panels and interfaces



CL-SOA-100-RM Universal panel

Equipment Interface Definition

Interface Silk Screen	Name	Function/Link
In1	SOA1 Input port	SOA The first way of SOA Small Signal power input port
Out1	SOA1 Output port	SOA The first way of SOA Amplify output port
In2	SOA2 Input port	SOA The second way of SOA Small Signal power input port
Out2	SOA2 Output port	SOA The second way of SOA Amplify output port



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Indicator light instruction

Indicator light silk screen	Name	Description
PWR	SOA Power Light	SOA Light on, SOA power supply is normal, Light off, power supply failure
RUN	SOA Run Light	SOA Light on, SOA power supply is normal, Light off, power supply failure
In1	SOA1 Input alarm light	SOA Light on, the first way of SOA Reception is not normal, Light off, Reception normal
Out1	SOA1 Output alarm light	SOA Light on, the first way of SOA Output is not normal, light off, Output normal
In2	SOA2 Input alarm light	SOA Light on, the second SOA Reception is not normal, light off, Reception normal
Out2	SOA2 Output alarm light	SOA Light on, the second SOA Output is not normal, light off, Output normal

Equipment Installation and opening

- 1 Insert the SOA card into a 1U, 2U, or 6U rack;
- 2 Check the panel lights carefully, PWR light, SOA board power supply normal, RUN light, SOA card normal;
- 3 To remove the protective cap on the optical port, input the optical signal, if the connection is correct and there is a signal on the line, this time, the panel only power indicator light&RUN (green) light on, the other are in the off state.

Common problems and solutions

- 1, The power light off: Please check whether the card is inserted correctly or not, and the rack is working properly or not;
- 2, The input alarm indicator light: turn off the power, check whether the optical input power at the optical port Within the input range of SOA amplifier or not.
If you still can not solve, please confirm whether the input and output of the equipment is reversed or not. Whether the Optical signal wave of the equipment is within the operating wavelength range or not.
- 3, the temperature alarm: Please confirm whether the ambient temperature of the equipment is too high or not.



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4, the output alarm, pump alarm: if this alarm occurred, please turn off the equipment, and promptly contact us.

Ordering information

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