

半导体放大器SOA

产品名称	半导体放大器SOA
公司名称	上海量青光电技术有限公司
价格	1.00/个
规格参数	品牌:量青光电 型号:光隔离器 光衰减器:光开关
公司地址	上海市奉贤区奉城镇东街98号13幢1176室（注册地址）
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产品详情

Innolume 半导体放大器SOA 半导体光放大器（Semiconductor Optical Amplifiers,SOA）是采用半导体增益介质的一种光放大器。半导体光放大器具有结构简单、体积小，制作工艺成熟、成本低、寿命长、功耗小等特点。SOA通常用于通信系统中的全光中继放大器、接收机前置放大器等。

量青光电为您提供Innolume 波长范围780nm到1330nm的波段各种波长、功率、尾纤的半导体光放大器，您可以根据自己的实际需求选购合适的产品。 Semiconductor optical amplifiers (booster optical amplifiers) are amplifiers which use a semiconductor to provide the gain medium. They have a similar structure to Fabry – Perot laser diodes but with anti-reflection design elements at the end faces. Recent designs include anti-reflective coatings and tilted waveguide and window regions which can reduce end face reflection to less than 0.001%. Since this creates a loss of power from the cavity which is greater than the gain, it prevents the amplifier from acting as a laser. Optical coherence tomography (OCT) is a low coherence interferometry technique that generates backscattering profiles of tissue. OCT has been very successful in ophthalmology in diagnosing eye diseases and it is widely applied in other areas such as dentistry, endoscopy and dermatology. Light sources are a crucial component in the design of OCT systems as they decide the resolution along the optical axis as well the depth penetration of infrared light in tissue. Swept-source lasers (SSL) are the light source of choice for Fourier domain optical coherence tomography (FDOCT). The gain medium in SSL is most often a semiconductor optical amplifier (SOA). Their main advantage is fast carrier dynamics which ensures fast buildup of lasing within the cavity. Furthermore, a wider tuning range can be achieved by employing several SOAs in parallel. Typical parameters of fiber-coupled SOAs

Part number	Gain	mean wavelength	Gain bandwidth	FWHM	Small signal gain	1	Saturation output power	2	Noise figure	Gain maximum wavelength	Gain spectrum dip	ASE power	ASE ripples	RMS	3	PER	Operating current	nm	nm	dB	dBm	dB	nm	dB	mW	dB	dB	mA																																																																																																																	
SOA-1000-100-YY-30dB	1000	100	33	17	6	955, 1030	1	25	0.02	20	600	SOA-1020-110-YY-27dB	1020	110	27	15	7.5	970, 1040	4	15	0.02	20	450	SOA-1030-20-YY-40dB	1030	20	40	18	8	1030	-	70	0.03	20	400	SOA-1060-20-YY-40dB	1060	22	40	18	8	1065	-	60	0.02	20	400	SOA-1060-90-YY-30dB	1060	90	30	18	5	1060	-	7	0.02	20	400	SOA-1080-20-YY-40dB	1080	27	38	17	7	1085	-	40	0.02	20	400	SOA-1130-20-YY-35dB	1125	25	35	15	10	1125	-	30	0.03	20	600	SOA-1140-90-YY-24dB	1140	90	24	17	4.5	1110, 1170	5	1.4	0.01	20	400	SOA-1190-90-YY-20dB	1190	90	20	15	6.5	1160, 1225	5	0.7	0.02	20	300	SOA-1250-110-YY-27dB	1250	110	27	15	7.5	1210, 1280	6	5	0.05	20	900	SOA-1290-40-YY-25dB	1285	45	24	12	7.5	1290	-	1	0.02	20	400	1	-	@	-	25dBm	input signal, gain maximum	2	-	@	-

3dB, gain maximum 3 - @ ASE maximum, RMS in 1 nm range, 10pm resolution

780nm到1330nm范围内, 可指定波长 联系人: Michael 李

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