

Broadband ASE Source, 1 $\mu$ m  
OEM module

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MODEL NO

# BBS-1 $\mu$ m

**DESCRIPTION:**

This 1 $\mu$ m Broadband ASE Source is based on amplified spontaneous emission from a semiconductor diode pumped Ytterbium doped fiber, and delivers a high spectral density output in the wavelength range 1015nm – 1085nm. The unit has internal single-stage output isolator for high output power or double-stage output isolator for higher back reflection tolerance. It includes drive and control electronics. Upon request, it allows for external Enable/Disable and external control of the pump laser diode current.



**OPTICAL PARAMETERS (AT 25°C)**

Parameter	Specification				Unit
Center wavelength	in range 1045 – 1055				nm
Spectral width	@ 3dB	>50			nm
	@ 10dB	>65			nm
Spectral flatness	< $\pm$ 1.5				dB
Model code	BBS-1 $\mu$ m-25-U	BBS-1 $\mu$ m-45-U	BBS-1 $\mu$ m-12-L	BBS-1 $\mu$ m-22-L	-
Output power	> 25	> 45	>12	> 22	mW
Back reflection tolerance	30	13	30	13	dB
Output polarization	random	random	linear	linear	-
Output power stability	< $\pm$ 0.1				dB

**OPTICAL CONNECTIONS**

Fiber type	HI1060 or PM980
Connector type	FC/APC, key width 2.02 mm

**ELECTRICAL PARAMETERS (AT 25°C)**

Parameter	Specification	Unit
DC Power supply	+5	V
Power consumption	< 15	W

**MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS**

Parameter	Specification	Unit
Operating case temperature	5 - 55	C
Storage temperature	-5 - 75	C
Humidity	0 - 95, Non-condensing	%
Dimensions (WxDxH)	120 x 90 x 25	mm

**TYPICAL OPTICAL EMISSION SPECTRUM**

