YTTERBIUM DOPED FIBER AMPLIFIER, SINGLE POLARIZATION PM OEM MODULE

Release: V1.0 | Author: MM | Date: 12/05/2016

MODEL NO

YDFA-SPM-2

DESCRIPTION:

This Single Polarization-Maintaining Ytterbium-doped fiber amplifier is of double stage configuration. Performance is optimized to achieve a high small signal gain at 1064 nm. Input polarization should be aligned with the slow axis. The unit has internal input and output isolators and polarizers that block the power in the fast axes. This OEM product includes drive and temperature control electronics.

OPTICAL PARAMETERS (AT 25°C)

Parameter	Specification	Unit
Operating wavelength band	1055 – 1075	nm
Saturated output power (+5 dBm input at 1064nm)	> +17	dBm
Small signal gain (-30 dBm input at 1064nm)	> 28	dB
Noise Figure (-10 dBm input at 1064nm)	< 7	dB
Output polarization extinction ratio (with connectors)	> 25	dB

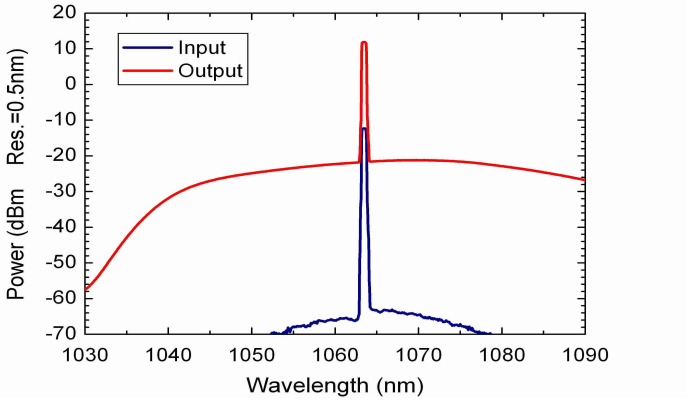
OPTICAL CONNECTIONS

Fiber type – input and output signal	Panda 980
Connector type – input and output signal	FC/APC, key width 2.02 mm, key aligned with slow axis
Polarization – input and output signal	Aligned with slow axis

ELECTRICAL PARAMETERS (AT 25°C)

Parameter	Specification	Unit
DC Power supply	+5	V
Power consumption	< 25	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)	160 x 110 x 25	mm

OPTICAL OUTPUT SPECTRUM FOR -10dBm INPUT AT 1064nm (MODULE OUTPUT)