

YTTERIUM DOPED FIBER AMPLIFIER, PRE-AMPLIFIER  
OEM MODULE

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

MODEL NO

**YDFA-20 [23]**

## DESCRIPTION:

This Ytterbium-doped fiber amplifier is a general-purpose optical amplifier for 1 $\mu$ m. This optical amplifier features over +20dBm of saturated optical output power, together with a high small-signal gain and low noise figure. The unit has internal input and output isolators. 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)	>+20 *	dBm
Small signal gain (-30 dBm input at 1064nm)	> 30	dB
Noise Figure (-10 dBm input at 1064nm)	< 6	dB

\* +23dBm version available on request

**OPTICAL CONNECTIONS**

Fiber type – input and output signal	HI1060 or equivalent
Connector type – input and output signal	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