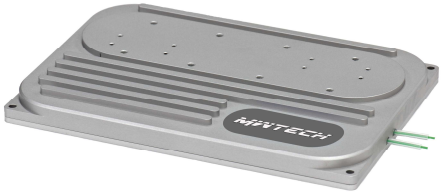
Ytterbium Doped Fiber Amplifier, Single Polarization PM OEM module

Model no.: YDFA-1064-SPM (HP)



Description

This Single Polarization-Maintaining Ytterbium-doped fiber amplifier is of double stage configuration. Performance is optimized for 1064 nm. Input polarization should be aligned with the PM fiber 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. The output power is adjustable via the second stage pump current setpoint.

Optical parameters (at 25°C)

Parameter	Specification	Unit
Optimized for amplifying CW signals at wavelength	1064	nm
Output power (in 5-20 mW input signal range)	> 325	mW
Output polarization extinction ratio	> 15	dB
Tap ratio for output tap coupler relative to output signal	-20	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, fast axis is blocked

Electrical parameters (at 25ºC)

Parameter	Specification	Unit
Power supply voltage	+5	V
Power supply current	> 2.5	A
Heat dissipation (ensure heat sinking)	< 10	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 120 x 25	mm

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