

# YTTERBIUM DOPED FIBER AMPLIFIER

Model Number: **YDFA-NANO-PM-RS-Custom-FCA**

Product Code: **1811**

**Micro Processor Controlled YDFA**



## Specifications:

Parameters	Specifications
Wavelength Range	1064 nm typical
Polarization Maintaining Property	Provided. Optical signal: slow axis light is amplified; fast axis light is blocked
Gain Flattening Filter	Not included
Output Power	20 dBm, tested with 1064 nm, 250 kHz PRF, 4 ns pulse width, 1 mW average power
Output Pulse Peak Power	≤ 100 W, 4 ns pulse width, 250 kHz PRF nominal
Gain	20 dB, tested with 1064 nm, 250 kHz PRF, 4 ns pulse width, 1 mW average power
Optical Input Fiber	900um loose tube, FC/APC, blue, 1 meter, PM fiber PN: PM980
Optical Output Fiber	900um loose tube, FC/APC, red, 1 meter, PM fiber PN: PM980
Input Power Monitoring	Not provided
Output Power Monitoring	Not Provided
Polarization Extinction Ratio	≥ 20 dB
Control and Communication Interface	RS-232, LVTTTL Level
Dimension	100 x 75 x 15 mm
Power Input	+12 VDC +/- 5%
Electrical Interface Connector	PN: ASP202700-01, Male 30-PIN with clamp on both ends
Operational Case Temperature Range	+10 to +40 °C
Mode of Operation	ACC (constant pump current control)



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**Electrical connector:**

Part number: ASP202700-01

Pin No	Description	Pin No	Description
1	+12V	2	+12V
3	-	4	-
5	GROUND	6	GROUND
7	RS232 TX	8	RS232 RX
9	GROUND	10	GROUND
11	EDFA RESET LVTTTL	12	-
13	EDFA POWER MUTE LVTTTL	14	EDFA INTERLOCK LVTTTL
15	GROUND	16	EDFA CASE TEMP ALARM LVTTTL
17	EDFA PUMP CURRENT ALARM LVTTTL	18	EDFA PUMP TEMP ALARM LVTTTL
19	EDFA LOSS OUTPUT POWER LVTTTL	20	EDFA LOSS INPUT LVTTTL
21	-	22	-
23	-	24	-
25	GROUND	26	GROUND
27	-	28	Controller Health pulse
29	-	30	+12V



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