Preliminary Release

CUBESAT WDM Type High Power Optical Fiber Amplifier

- 1550nm-band, Power Output of >33dBm
- WDM Type, with Built-in Multiplexer
- Superior OSNR of >45dB at Pin -3dBm/ch
- All polarization maintaining, Size of 90mm x 95mm



Specifications

Parameter	Specificfation			
	Min	Typ.	Max	Unit
Grade		Pre-Engineering Model with Space Grade		
Optical Properties				
Input Signal Type		Continuous Wave (CW), WDM Modulated Signal		
Operating Wavelength	1540		1565	nm
Input Power Per Channel	0	+3	+10	dBm
Number of Channels (1)		4 ~ 8		
Total Input Power @ 4 Channels Input	0	3	8	dBm
Total Output Power @ Input Signal 3dBm/ch	32	33		dBm
Small Signal Gain Per Channel @ Input 3dBm/ch, 1550nm	28	30		dB
Gain Flatness @ Input 3dBm/ch, 1545~1562nm		+/- 1.5	+/- 2.5	dB
Noise Figure @ 3dBm/ch, 1550nm		5.5	6.5	dB
Optical Signal to Noise Ratio (OSNR) @ 3dBm/ch, 1550nm	40	50		dB
Input/Output Isolation		> 30		dB
Polarization Extinction Ratio (PER) (PM Type)	20	23		dB
Input/Output Fiber Connector		FC/APC		
Input/Output Fiber Type		PM1550, ϕ0.9mm, with Hytrel Pigtail 1m		
Control, Monitor & Operating Condition				
Power Monitoring		Input Power Monitor & Output Power Monitor		
Control Method		Automatic Current Control (ACC) Automatic Power Control (APC)		
PC interface		Dsub-15, RS232		
Operating Temperature		-10 to 50		℃
Storage Temperature		-20 to + 70		℃
Power Supply		DC +24~+28V, 4A		
Electrical Power Consumption (Dc +5V, 1A Version)		15	25	W
Dimensiosn (Wx H x D) (Excluding Fiber Extrusion)		90 x 43 x 95		mm
Weight		Typ. 1.0		kg

(1) Can be define with built-in optical MUX for combining different of input wave

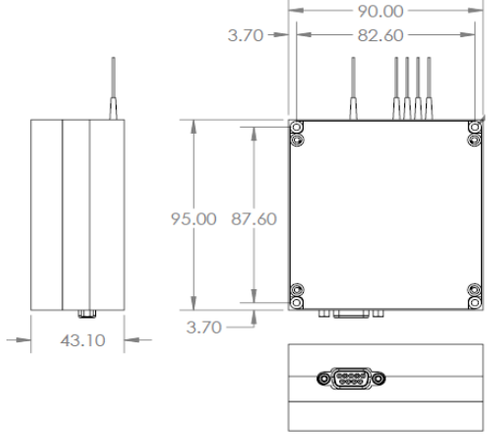


Fig.1: Dimension Drawing

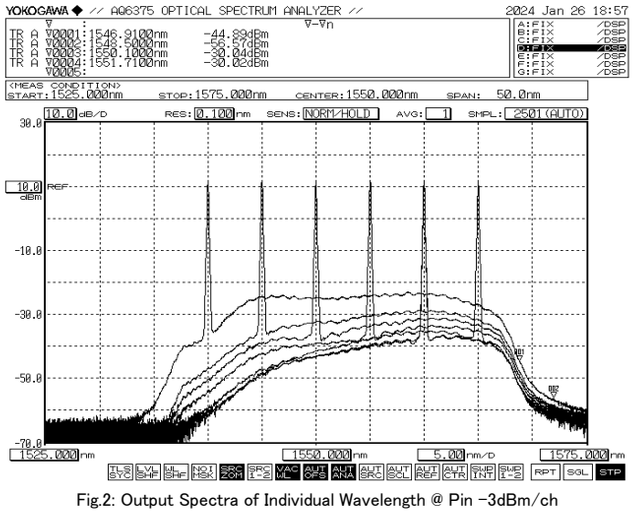


Fig.2: Output Spectra of Individual Wavelength @ Pin −3dBm/ch

Ordering Information

WHPA-CSAT-4065W-33P-PM-M-Nx1-FA-EG

N=1 Single Input; 2, 4, 6, 8: Indicates number of input ports.



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