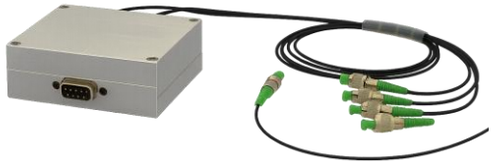
Preliminary Release

CUBESAT WDM Type Low Noise Optical Fiber Amplifier

- 1550nm-band, Extremely High Gain of Typ 50dB
- WDM Type, Low Input Power of <-50dBm
- Superior OSNR of >10dB at Pin -40dBm/ch
- All polarization maintaining, Szie 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	-52	-40	-25	dBm
Number of Channels (1)		4 ~ 8		
Total Input Power @ 4 Channels	-45	-33	-18	dBm
Total Output Power @ Input Signal -40dBm/ch	13	17		dBm
Output Power Per Channel @ Input Signal -40dBm/ch	2.5	5		dBm
Small Signal Gain @ Input -50dBm/ch, 1550nm	45	50		dB
Gain Flatness @ Input -40dBm/ch, 1540~1562nm		+/- 1.5	+/- 1.8	dB
Noise Figure @ -40dBm/ch, 1550nm		3.8	4.2	dB
Optical Signal to Noise Ratio (OSNR) @ -40dBm/ch, 1550nm	10	15		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 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 55		℃
Storage Temperature		-20 to + 70		℃
Power Supply		DC +24~+28V, 0.5A or DC+5V, 1A		
Electrical Power Consumption (Dc +5V, 1A Version)		0.7	1.2	W
Dimensiosn (Wx H x D) (Excluding Fiber Extrusion)		90 x 36 x 95		mm
Weight		< 0.7		kg

(1) Can be define with built-in optical filter of 100GHz or 200GHz.

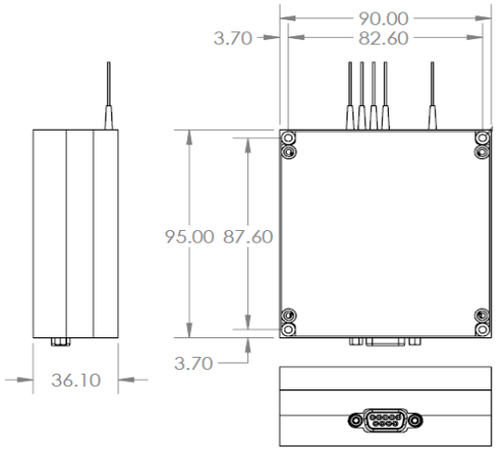


Fig.1: Dimension Drawing

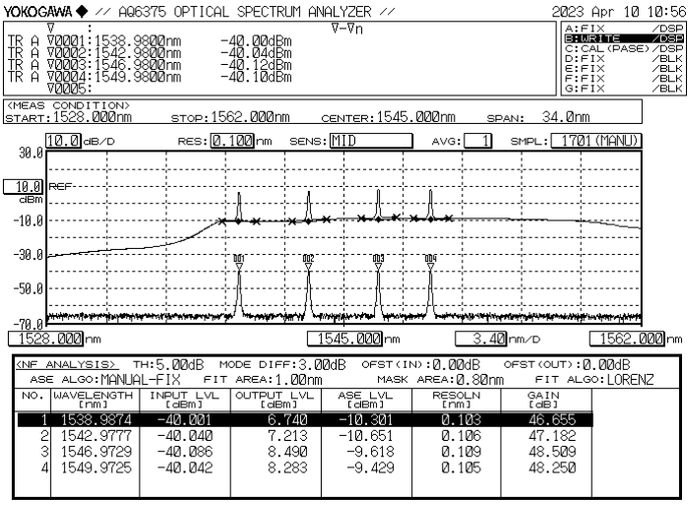


Fig.2: Output Spectra with 4 Wavelengths @ Pin -40dBm/ch

Ordering Information

WLNA-CSAT-4065W-50G-PM-M-1xN-FA-EG

N: 1 (Single output, No internal filter), 2, 4, 6, 8 (With 100GHz/200GHz spacing of built-in filter at output side, customer to define the wavelength)

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