

GOA

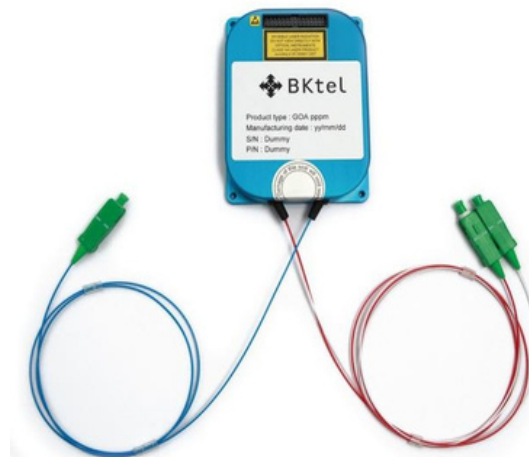
Telecom Optical Amplifier in Multi-Source Agreement Format

Applications

- Long-Haul, Metro and Access Networks
- Single Channel Networks
- Test & Measurement

Features

- High Output Power, up to +32dBm
- Compact MSA compliant package (70 x 90 x 15 mm)
- Low Noise Figure



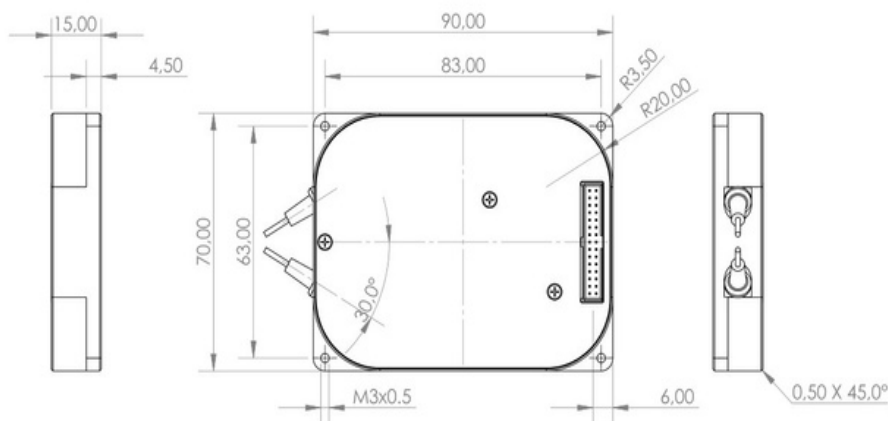
Parameter

Parameter Range

Wavelength	[nm]	1530 ;;; 1564
Output Power	[dBm]	Up to 32 dBm
Input Power Range	[dBm]	-14 ... +12
Noise Figure	[dB]	5.5
Polarization		Random / Linear
Power Stability	[%]	2
Optical Isolation	[dB]	30
Return Loss	[dB]	40
Fiber Termination / Connector		SC/APC, FC/APC, others
Power Supply Voltage	[V]	+3.3 / +5
Power Consumption	[W]	<25
Operating Case Temperature	[°C]	0 ... +70
Communication Interface		RS232 / IC2

Mechanical Dimensions

Ordering Information



Custom variants are available upon request, please contact our customer service to discuss your specification requirements.

Evaluation board available on request



Specifications are subject to change without notice

HPOA-1

1 μ m-Band High Power Optical Amplifier

Applications

- Airborne LIDAR
- Optical Tweezing
- Test & Measurement

Features

- High Output Power, up to 5W
- Compact Package (150 x 170 x 25 mm)
- Digital Control System



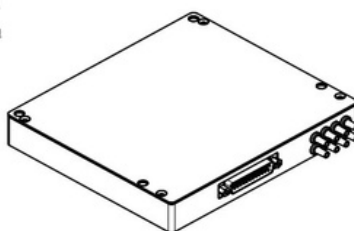
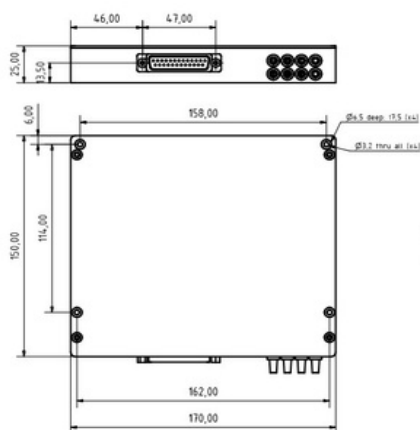
Parameter

Parameter Range

Wavelength	[nm]	1030 / 1053 / 1064 ... 1100
Output Power	[dBm]	Up to 37
Input Power Range	[dBm]	-10 ... +15
Noise Figure	[dB]	5.0
PDG	[dB]	0.5
PMD	[ps]	0.5
Optical Isolation	[dB]	30
Return Loss	[dB]	40
Fiber Termination / Connector		FC/APC, Collimator, others
Power Supply Voltage	[V]	+24
Power Consumption	[W]	<50
Operating Case Temperature	[°C]	0 ... +65
Communication Interface		RS232

Mechanical Dimensions

Ordering Information



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Evaluation board available on request



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HPOA-1

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HPOA-1.5

1.55 μm High Power Optical Amplifier

Applications

- Telecom
- Free Space Communication
- LIDAR **Features**
- High Output Power, up to 5W

- Compact Package
- Digital Control System



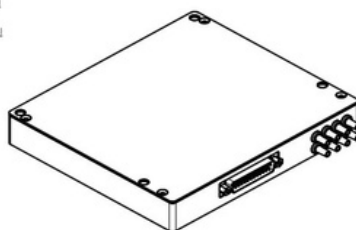
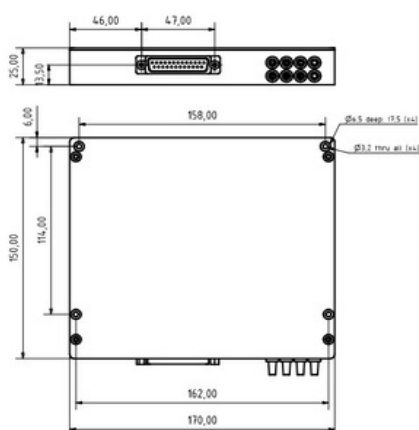
Parameter

Parameter Range

Wavelength	[nm]	1540 ... 1565
Output Power	[W]	Up to 5
Input Power Range	[dBm]	-10 ... +15
Noise Figure	[dB]	<5.5
Polarization		Random / Linear
Stability	[%]	<2
Optical Isolation	[dB]	30
Return Loss	[dB]	40
Fiber Termination / Connector		FC/APC, Collimator, others
Power Supply Voltage	[V]	+5 / +24
Power Consumption	[W]	<50
Operating Case Temperature	[°C]	-5 .. 65
Communication Interface		RS-232

Mechanical Dimensions

Ordering Information



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Evaluation board available on request



Specifications are subject to change without notice

THPOA-1

1 μ m Band, Ultra High Power Optical Amplifier

Applications

- LIDAR,
- Industrial
- Multiple Laser Combination

Features

- High Output Power, up to 40 Watts
- Low Noise Figure
- Single or Multiple Output Ports



Parameter

		Parameter Range
Wavelength	[nm]	1030 / 1053 / 1064 ... 1100
Output Power	[dBm]	Up to +46
Input Power Range	[dBm]	-8 ... +15
Noise Figure	[dB]	5.5
Polarization		Random / Linear
Stability	[%]	2
Optical Isolation	[dB]	30
Return Loss	[dB]	40
Fiber Termination / Connector		SC/APC, FC/APC, others
Power Supply Voltage	[V]	AC 100 - 240
Power Consumption	[W]	< 200
Operating Case Temperature	[°C]	0 ... +70
Communication Interface		RS232 / GUI

Mechanical Dimensions

Ordering Information

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Graphic User Interface.



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THPOA

3U / Bench Top High Power Optical Amplifier

Application

- Test & Measurement
- Free Space Optics

Features

- High Output Power, up to +40 dBm
- Low Noise Figure
- 3U Bench top or Rack-mounted



THPOA-300 THPOA-330 THPOA-370 THPOA-400

Parameter

Wavelength	[nm]	1540...1565			
Output Power	[dBm]	+30	+33	+37	+40
Input Power Range	[dBm]	-8...+15	-8...+15	-8...+15	-8...+15
Noise Figure	[dB]	5.5	5.5	5.5	5.5
Polarization		Random / Linear			
Stability	[%]	2			
Optical Isolation	[dB]	30			
Return Loss	[dB]	40			
Power Supply Voltage	[V]	AC 100 - 240			
Power Consumption	[W]	16	25	45	60
Operating Case Temperature	[°C]	0...+70			
Optical Connecto		SC/APC, FC/APC, others			
Communication Interface		RS-232 / GUI			

Mechanical Dimensions

Ordering Information

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Graphic User Interface



Specifications are subject to change without notice

THPOA-2

2 μ m Band, Ultra High Power Optical Amplifier

Applications

- LIDAR,
- Industrial
- Multiple Laser Combination

Features

- High Output Power, up to 10 Watts
- Low Noise Figure
- Single or Multiple Output Ports



Parameter

Parameter Range

Wavelength	[nm]	1750 nm 2050 nm
Output Power	[dBm]	Up to +40
Input Power Range	[dBm]	-8 ... +15
Noise Figure	[dB]	5.5
Polarization		Random / Linear
Control Mode		CC / PC
Optical Isolation	[dB]	30
Return Loss	[dB]	40
Fiber Termination / Connector		SC/APC, FC/APC, collimator
Power Supply Voltage	[V]	AC 100-240
Power Consumption	[W]	<60
Operating Case Temperature	[°C]	0 ... +70
Communication Interface		RS232 / GUI

Mechanical Dimensions

Ordering Information

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Graphic User Interface.



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THPOA-2

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TOA

Bench Top, 1550nm Erbium Doped Optical Fiber Amplifier

Application

- Test & Measurement

Features

- High Output Power, up to 30 dBm
- User friendly Table top
- Stable Output Power



Specifications are subject to change without notice

Parameter

		TOA-170	TOA-200	TOA-230	TOA-300
Wavelength	[nm]			1530 ... 1565	
Output Power	[dBm]		17	20	23 30
Output Power Tunability	[%]			10 ..100	
Mode of Operation				CW	
Polarization				Random (PDG<0.5 dB) / Linear (PER >20 dB)	
Output Power Stability	[%]			3	
Optical Output Isolation				30	
Noise Figure	[dB]			5	
Maximum Gain	[dB]	20		23	26 30
Input Power	[dBm]			-3 to +13	
Control Mode				CC / PC	
Power Supply Voltage	[V]			AC 100-240	
Operating Temperature	[°C]			15 .. 40	
Optical Connector				FC/APC, Collimator, others	
Optical Fiber type				NA	
Dimensions	[U]			1.5 U	
Communication Interface				RS-232	

Ordering Information

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Graphic User Interface

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