



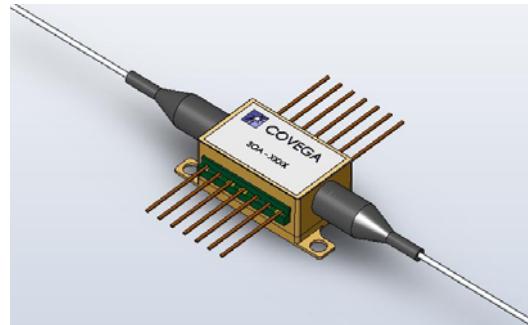
## BOA 1036: 1350nm Booster Optical Amplifier

Limited Availability

### Description

The BOA 1036 is a high saturation output power high bandwidth polarization maintaining Booster Optical Amplifier (BOA). It incorporates a highly efficient InP/InGaAsP Quantum Well (QW) layer structure and a reliable ridge waveguide design.

It is housed in a standard 14-pin butterfly package with integrated thermoelectric cooler and thermistor. Packaging options include isolator(s) and choice of single mode fiber and polarization maintaining fiber tails.



### Features

#### Applications

- ✓ Telecom & Datacom
- ✓ Booster Amplifier of Fixed and Tunable ITU Lasers and Transmitters
- ✓ Research & Non-Linear Applications

- High Saturation Output Power
- Broad Spectral Bandwidth
- High Fiber-to-Fiber Gain
- High Polarization Extinction Ratio

### Specifications

CW; T (Chip) = 25°C, T (Case) = 0 - 70°C

Parameter		Min	Typ	Max	Units
Operating Current	I <sub>OP</sub>		800		mA
Central Wavelength	λ <sub>C</sub>		1350		nm
ASE Power @ I <sub>OP</sub>	P <sub>ASE</sub>		3.1		mW
Optical 3 dB Bandwidth	BW	65	80		nm
Saturation Output Power @ -3 dB	P <sub>SAT</sub>	12	15		dBm
Small Signal Gain across BW @ Pin = -20 dBm	G	17	23		dB
Gain Ripple (p-p) @ I <sub>OP</sub>	δG		0.25	0.4	dB
Polarization Extinction Ratio	PER		16		dB
Noise Figure	NF		8	12	dB
Forward Voltage	V <sub>F</sub>		1.4	2.0	V
TEC Operation (typ / max @ T <sub>CASE</sub> = 25°C / 70°C)					
- TEC Current	I <sub>TEC</sub>		0.12	1.5	A
- TEC Voltage	V <sub>TEC</sub>		0.35	4	V
- Thermistor Resistance	R <sub>TH</sub>		10K		Ω

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

The picture is a representation. The actual part may vary from the one shown.

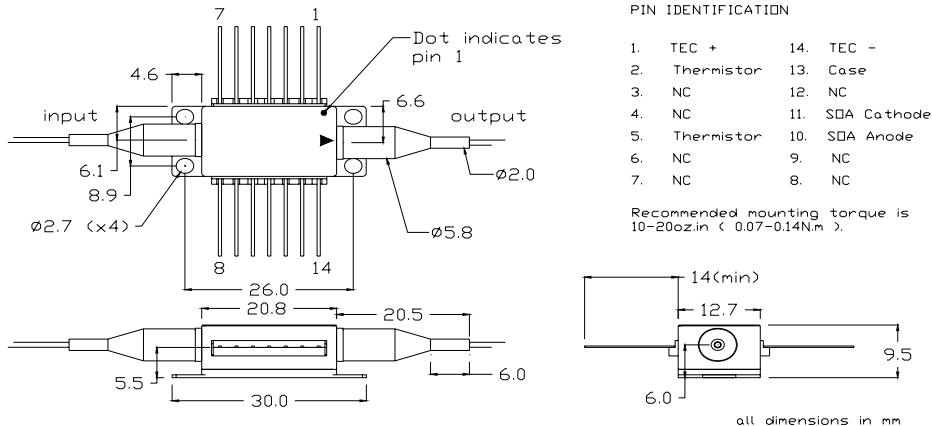


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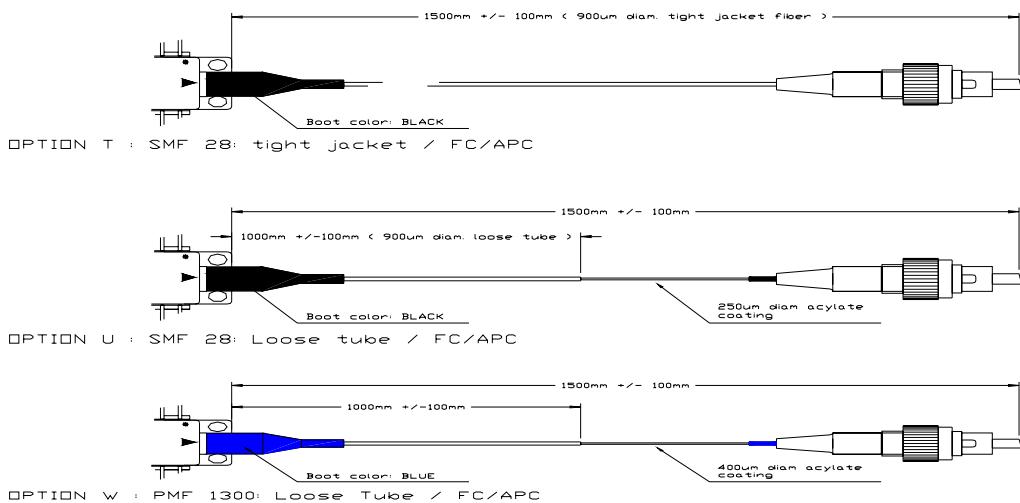
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## BOA 1036

### Packaging



### Fibertail Options



### Ordering Information

BOA 1036 - X - 0 - X - X - X - X - X

X	0	X	X	X	X	X	X	Numeric
Isolator	Reserved	Fiber jacket configuration*	Input Fiber	Output Fiber	Input Connector	Output Connector	Reserved	
0 = none		U = SMF-8, loose tube	S = SMF	S = SMF	A = FC/APC	A = FC/APC		
1 = input only		T = SMF-28, tight jacket	P = PMF	P = PMF				
2 = output only		W = PMF 1300 nm, loose tube						
3 = input & output								

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