

## 1550 nm SOA – Polarization Independent

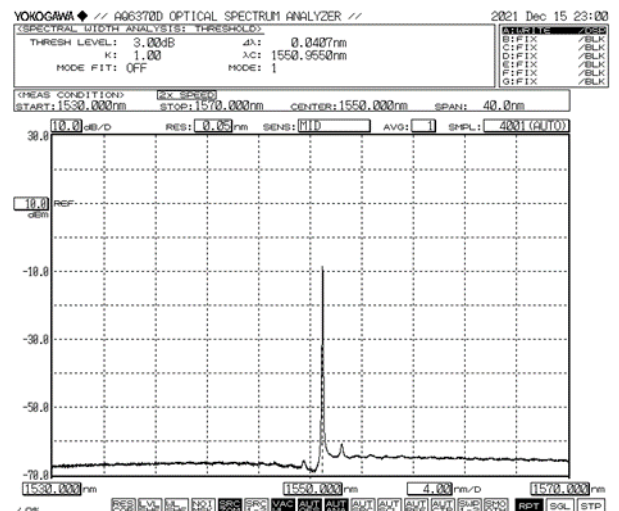
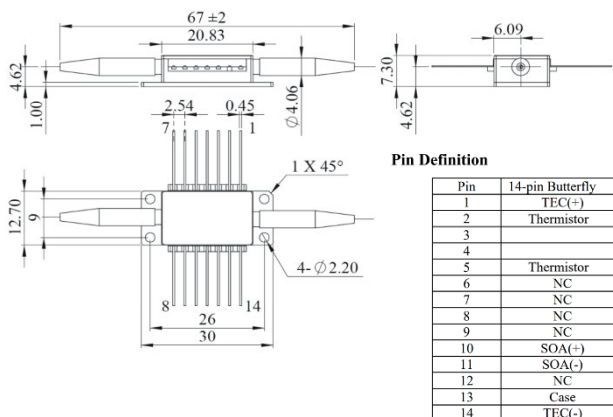
### 1550 nm / SMF singlemode fiber / Butterfly package

Reference: SOA-4PI-0-0

SPECIFICATIONS	Unit	Min	Typ	Maximum
Amplification/Modulation Wavelength range	nm	1520	1550	1570
Operating Current (CW mode)	mA		600	800
Operating Current (Pulse mode*)	mA		1000	1200
Max output power (1550 nm-CW mode)	dBm		15 (30 mW)	
Max output power (1550 nm-Pulse mode*)	dBm		17*(50 mW)	
Maximum Input power	dBm			5
Operating Voltage	V		1.7	
ASE optical 3 dB Bandwidth	nm	70	90	
Small signal gain (Pin = -25 dBm/3 μW)	dB	20	22	
Gain Ripple (RMS) @ IopCW	dB		1.0	
Extinction ratio (Pin = -25 dBm)	dB	50	80	
Noise Figure (NF)	dB		8.0	9.5
TEC current (25°/case@65°)	A			1.5
TEC voltage (25°/case@65°)	V			3.6
Internal thermistor (25°) – (Beta=3375 K)	kOhm	9.5	10.0	10.5
Fiber type (eq)	-		SMF28	
Fiber coating	μm		900μm	
Connectors			FC/APC	
Fiber bend radius	kgf			1
Storage temperature	°C	-40		+85
Operating case temperature	°C	-20		+70
Operating chip temperature	°C	+15		+45
Laser diode reverse voltage	V			2
Soldering temperature/time	°C/S			260/10

\*With AeroDIODE pulsed drivers only.

Form factor, SOA pinning and typical performances:



Typical spectrum of a 1550 nm DFB laser diode amplified in pulse mode (OSA resolution 0.05 nm).