

1550 nm SOA – Polarization Independent

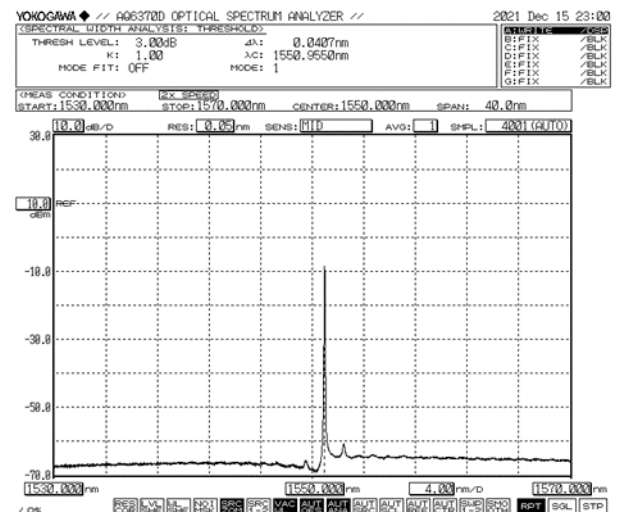
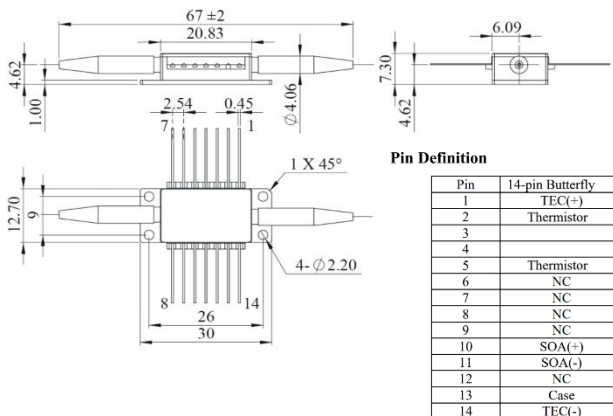
Model 4PI : 1550 nm – SMF singlemode fiber – Butterfly package

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 mW	-	15 30	-
Max Output Power (1550 nm - Pulse mode*)	dBm mW	-	17 50	-
Maximum Input Power	dBm	-	-	5
Operating Voltage	V	-	1.7	-
ASE Optical 3 dB Bandwidth	nm	-	40	-
Small Signal Gain (Pin = -25 dBm/3 μ W)	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°C/case@65°C)	A	-	-	1.5
TEC Voltage (25°C/case@65°C)	V	-	-	3.6
Internal Thermistor (25°C) – (Beta = 3375 K)	kOhm	9.5	10.0	10.5
Fiber Type (eq)	/	SMF28		
Fiber Coating	μ m	900 μ m		
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).