

1310 nm SOA

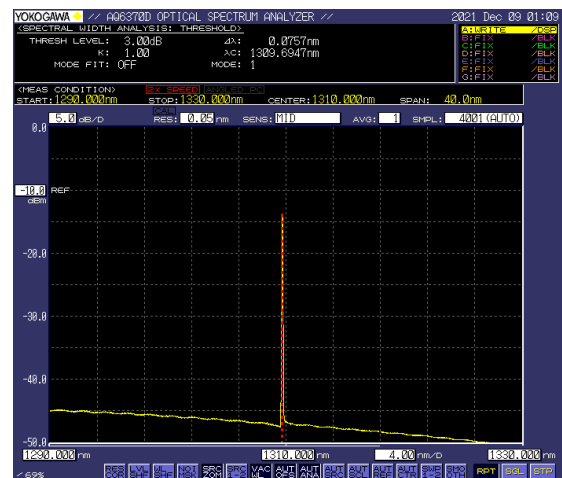
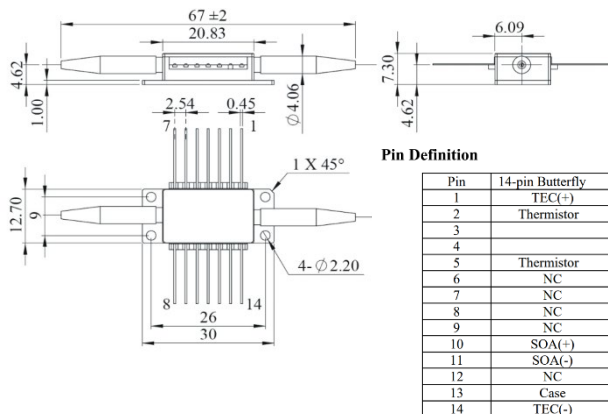
1310 nm / Polarization Independent / Butterfly package

Reference: SOA-3PI-0-0

SPECIFICATIONS	Unit	Min	Typ	Maximum
Amplification/Modulation Wavelength range	nm	1270	1310	1330
Operating Current (CW mode)	mA		500	550
Operating Current (Pulse mode*)	mA		800	850
Max output power (1310 nm-CW mode)	dBm		16 (40 mW)	
Max output power (1310 nm-Pulse mode*)	dBm		18* (63 mW)	
Maximum input power	dBm			5
Operating Voltage	V		1.7	
ASE optical 3 dB Bandwidth	nm	50	60	
Small signal gain (Pin = -25 dBm/3 μW)	dB	22	24	
Gain Ripple (RMS) @ IopCW	dB		0.1	
Extinction ratio (Pin = -25 dBm)	dB	50	75	
Noise Figure (NF)	dB			7.5
Polarization Dependent Gain (PDG)	dB		1.5	
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-e/ultra or equivalent		
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- permanent damage may occur otherwise.

Form factor, SOA pinning and typical performances:



Typical spectrum of a 1310 nm DFB laser diode amplified in pulsed mode (OSA resolution 0.05 nm).