

1310 nm SOA

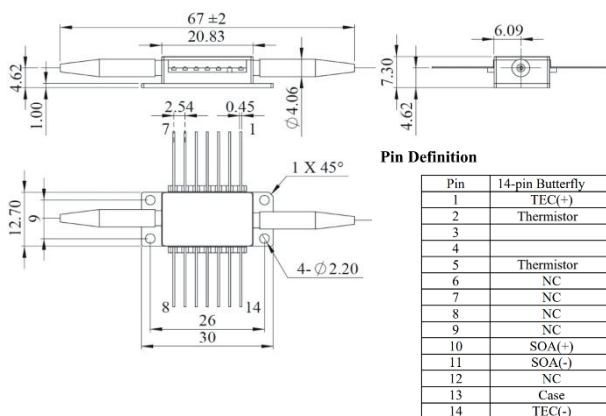
Model 3a : 1310nm – PM single mode fiber – Butterfly package

Reference: SOA-3a-0-0

| SPECIFICATIONS | Unit | Min | Typ | Maximum |
|--|----------|----------------------------|----------|----------|
| Amplification/Modulation Wavelength Range | nm | 1270 | 1310 | 1330 |
| Operating Current (CW mode) | mA | - | 700 | 750 |
| Operating Current (Pulse mode*) | mA | - | 1000 | 1200 |
| Max Output power (1310 nm - CW mode) | dBm mW | - | 18 65 | - |
| Max Output power (1310 nm - Pulse mode*) | dBm mW | - | 20 100 | - |
| 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 μ W) | dB | 28 | 30 | - |
| Gain Ripple (RMS) @ IopCW | dB | - | 0.1 | - |
| Extinction Ratio (Pin = -25 dBm) | dB | 50 | 75 | - |
| Noise Figure (NF) | dB | - | - | 7.5 |
| 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) | / | Panda PM1310 or equivalent | | |
| 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- 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).