

1053 & 1064 nm SOA

Model 2b : 1053/1064 nm – PM singlemode fiber – Butterfly package

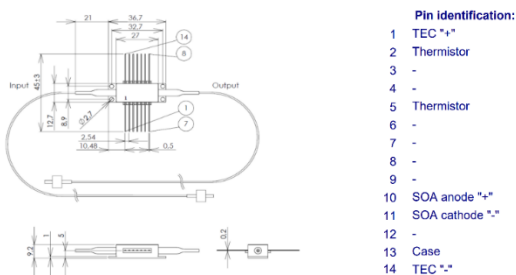
Reference: SOA-2b-0-0

SPECIFICATIONS	Unit	Min	Typ	Maximum
Amplification/Modulation Wavelength	nm	1000	-	1100
Operating Current (CW mode)	mA	-	400	500
Operating Current (Pulse mode*)	mA	-	1000	1200
Max Output Power (1064 nm - CW mode)	dBm mW	-	20 100	-
Max Output Power (1064 nm - Pulse mode*)	dBm mW	-	23 200	-
Max Input Power**	dBm mW	-	-	5 3
Operating Voltage	V	-	1.7	-
ASE Optical 3 dB Bandwidth	nm	70	90	-
Small Signal Gain (Pin = -25 dBm / 3 μ W)	dB	29	33	-
Gain Ripple (RMS) @ IopCW	dB	-	0.03	0.2
Extinction Ratio (Pin = -25 dBm)	dB	50	75	-
Noise Figure (NF)	dB	-	5.0	-
TEC Current (25°C/case@65°C)	A	-	-	3.0
TEC Voltage (25°C/case@65°C)	V	-	-	4.0
Internal Thermistor (25°C) – (Beta = 3375 K)	kOhm	9.5	10.0	10.5
Fiber Type (eq)	/	Panda PM980		
Fiber Coating	μ m	250		
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

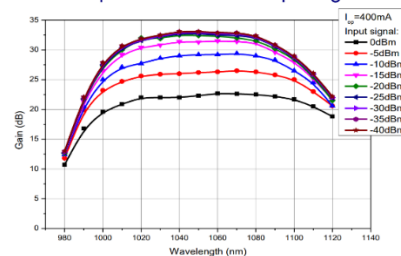
*With AeroDIODE pulsed drivers only.

**Even for use in modulation mode, it is recommended to use the product with low input power and high gain.

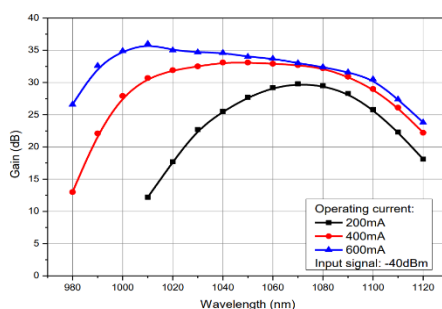
Form factor, SOA pinning and typical performances:



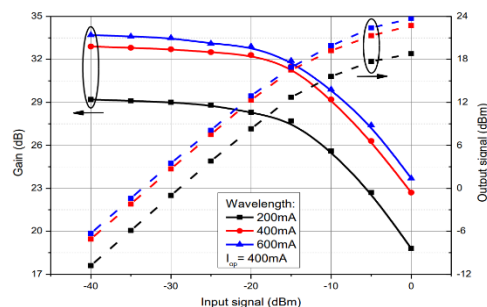
Gain spectra at different input signals



Gain spectra at different currents



Gain and Output power vs. input signal



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