

**Features:**

- fiber-to-fiber optical gain of up to 24 dB
- output power of up to 13 dBm
- -3 dB optical gain bandwidth of up to 95 nm

**Package:** Butterfly (DBUT)

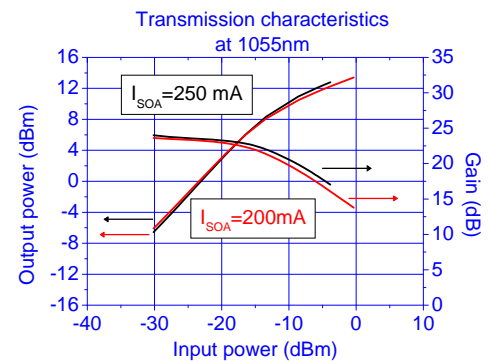
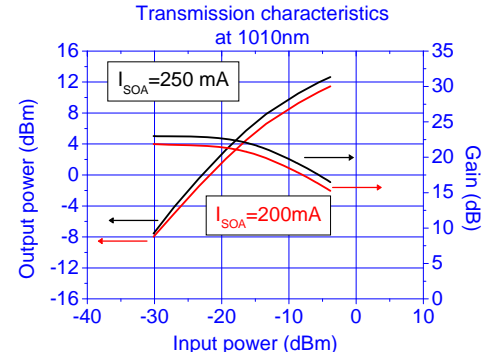
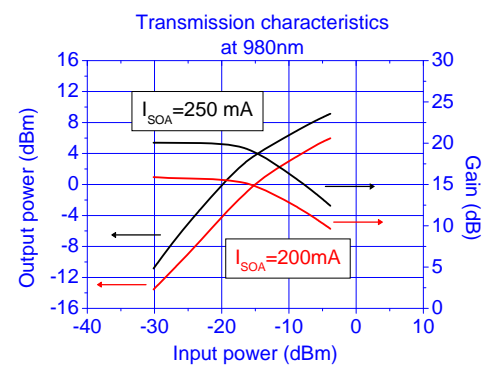
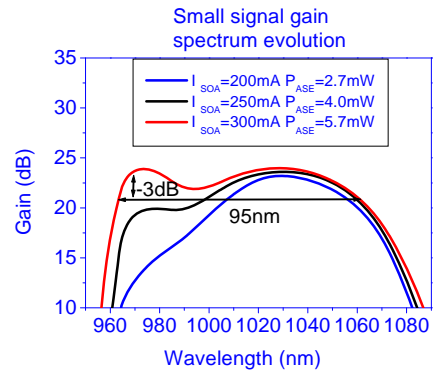
**Additional & customized:**

- PM fiber pigtails
- FC/APC terminated pigtails

**Specifications**  
(nominal stabilization temperature +25 °C)

Parameter	Min.	Typ.	Max.
Forward current, mA	-	-	300
Forward voltage, V	-	-	2.5
Output optical power, dBm	-	-	13.0
Central wavelength $\lambda_c$ , nm	-	1010	-
-3 dB optical gain bandwidth, nm	-	95	-
Gain ripple, dB	-	< 0.1	-
Small signal gain, dB	-	-	24
Polarization dependent gain, dB	-	7.0	-

**PERFORMANCE EXAMPLES**



The following part numbers should be used when **ordering**:

SOA-522-(a)-(b),  
 where:  
 a – package type (DBUT),  
 b – fiber type (SM or PM).  
 Example: SOA-522-DBUT-SM.

All specifications are subject to change without notice.

**Continues on next page →**

Performance examples (continued)

**POWER BOOSTER PERFORMANCE EXAMPLES**  
 Output spectra at  $P_{input}=2.0mW$ , spectral  $FWHM_{input}=0.06nm$

