



## **Features**

- Up to 300mW CW output power.
- High Quality, Reliability, & Performance

# **Product Specifications** 975nm Single-Mode 14-Pin Butterfly Module Laser Diodes

### **Description:**

High brightness, high quality, and high reliability are the foundation of our single mode product line.



Sheaumann's 975nm single mode laser modules are available with up to 300mW of continuous output power from a 14-pin butterfly packaged fiber. All chips are mounted on a 2.1 mm or 3.0mm COS within the package and come standard with an internal thermistor, TEC, and photodiode. Sheaumann's trademark laser chip design offers un-measurable degradation and long lifetimes that make our chips among the most reliable in the industry today. Our 980nm single mode line serves a broad range of applications including, telecommunication, cable TV, fiber lasers, optical data storage, spectral analysis, and graphics.

- **Applications**
- Telecommunication
- Cable TV
- Fiber Lasers
- Optical Data Storage
- Graphics

More options are available upon request. Please view our website for mechanical drawings of our module packages.

## Performance Data for Single-Mode 975nm Butterfly module devices

	<u>300mW</u>			_	<u>250mW</u>				<u>220mW</u>				<u>180mW</u>			
Parameter	<u>Unit</u>	Min	Тур	<u>Max</u>		<u>Min</u>	Тур	<u>Max</u>		<u>Min</u>	Тур	<u>Max</u>		<u>Min</u>	Тур	<u>Max</u>
Wavelength	nm	970	975	980		970	975	980		970	975	980		970	975	980
Spectrum FWHM	nm	-	0.5	2.0		-	0.5	2.0		-	0.5	2.0		-	0.5	2.0
Operating Power (P <sub>o</sub> )	mW	-	300	-		-	220	-		-	220	-		-	180	-
Operating Current (I <sub>o</sub> )	mA	-	490	580		-	380	450		-	380	450		-	380	450
Operating Voltage (V₀)	v	-	2.0	2.3		-	2.0	2.3		-	2.0	2.3		-	2.0	2.3
Lifetime	years	25	-	-		25	-	-		25	•	-		25	•	-
Threshold (Ith)	mA	-	30	50		-	30	50		-	30	50		-	30	50
Slope Efficiency (dP/dI)	W/A	0.60	0.71	-		0.60	0.71	-		0.60	0.71	-		0.60	0.71	-
TEC Voltage	v	-	-	2.9		-	-	3.2		-	•	3.2		-	•	3.2
TEC Current	Α	-	-	7.5		-	-	2.0		-	•	2.0		-	•	2.0
Storage Temp.	۰C	-40	-	80		-40	-	80		-40	-	80		-40	-	80
Operating Temp. (T <sub>op</sub> )	۰C	0	25	75		0	25	75		0	25	75		0	25	75
Lead Soldering Temp. (5 sec)	۰C	-	-	250		-	-	250		-	-	250		-	-	250

Note:

Specifications are subject to change without notice.
All Sheaumann Laser products are TE polarized

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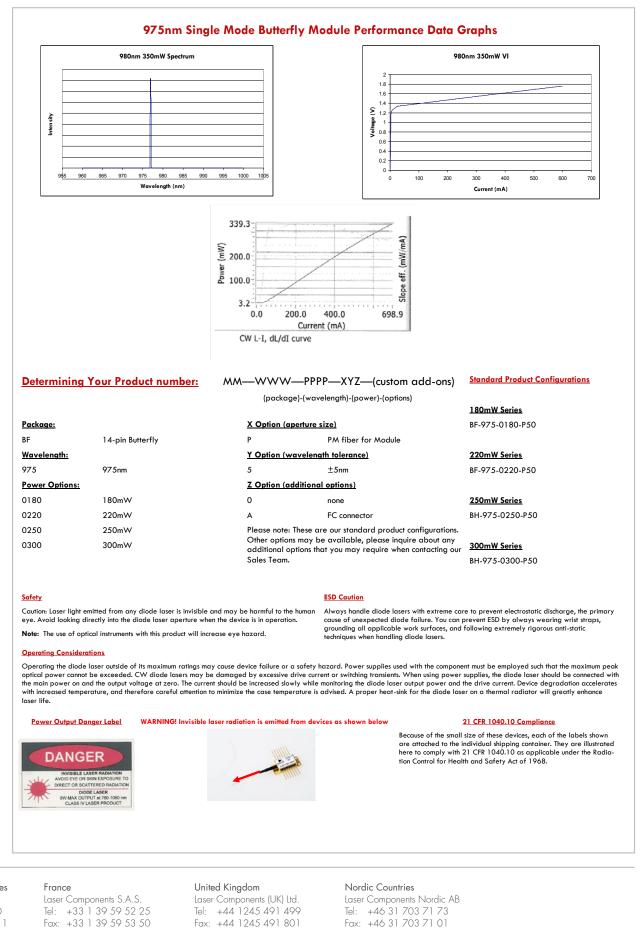
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