

SAFE USE AND HANDLING INFORMATION

The following information is provided to help the safe use and handling of the products supplied. Failure to comply with the provided guidelines may result in the failure of the component or may result in harm¹.

Please note that these products are designated solely for use as a component of an electronic product or laser product. The following warnings demonstrate the potential hazard when the component is connected with a laser energy source.

Electrostatic Discharge (ESD)²

Components are susceptible to damage by ESD. To help mitigate the risk of ESD damage, products are provided in ESD-safe packaging. To prevent ESD damage to the components, Sheumann recommends that customers comply with the following precautions during package opening and use:

- Handle product only at static-safe workstations (grounded wrist strap, cleanroom garb, anti static work surface, etc.) and with anti static gloves.
- Ensure manufacturing tools (soldering irons, test stations, etc.) are ESD safe.

Laser Radiation Warning



NOTE

Packaging on product will have applicable numbers here.

The above warning label demonstrates potential hazard when component is connected with a laser energy source.

¹ In no event shall Sheumann Laser, Inc. or its representatives be liable for any direct, indirect, punitive, incidental, special consequential damages, to property or life, whatsoever arising out of connected with the use or misuse of its products.

² Please note that the recommendations are precautions and may not fully mitigate risk of ESD damage.

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EXPOSURE WARNING

Direction of emission as shown when component is connected with a laser energy source.



AVOID EXPOSURE
LASER RADIATION
IS EMITTED FROM
THIS APERTURE

S	SERIES	C2	C3	C4	C4P	QA
		BM	CM/CMC	CL/CLC	CS	

T	SERIES	M5	M9	M9T

H	SERIES	HW	HS	HF

B	SERIES	MM 14 PIN BF	SM 14 PIN BF	7 PIN BF

2	SERIES	2 PIN SP	2 PIN SNP

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Thermal Management

Laser diodes generate heat during operation and may be susceptible to damage due to excessive heat. A mounting of thermal sinking solution must be sufficient to maintain device within operational specifications. Use of a thermal pad is highly recommended.

Solder Guidance

S Series Submounts: Solder at max 250°C for ≤ 5 seconds with an ESD safe soldering tool.

B Series, T Series, H Series and 2 Series: Connector pins are plated gold over nickel. Please note that use of improper soldering techniques has a high likelihood of causing device failure.

Pin Trimming

Pin trimming or clipping is not recommended as it is highly likely that it will result in failure of internal components. Evidence of trimming or clipping pins will void the manufacturer's warranty. If you require shorter pins or fewer pins, contact sales@sheaumann.com to discuss custom package options.

TEC Control

Laser diodes generate heat during operation and may be susceptible damage due to excessive heat. A mounting or thermal sinking solution must be sufficient to maintain device within operational specifications. Use of a thermal pad is highly recommend.

Fiber Bend Radius

Fiber-coupled packages are subject to bend radius requirements. Generally, the optical bend radius limit is $\leq 10X$ the outer jacket diameter, however specific bend radius requirements apply by fiber type.

Contact sales@sheaumann.com or your account manager to obtain the necessary information.

Fiber End Cleaning

Dirt and debris must be removed from a fiber and fiber connector when present. Failure to properly maintain the fiber end face will likely result in the failure of the component. For best results, it is recommend that the end users clean the fiber end face by applying a small amount of to a texwipe or particle-free cloth and dragging the fiber from the wet portion to the dry portion of the cloth. The use of fiber cleaning tools may also be a suitable method of cleaning.