

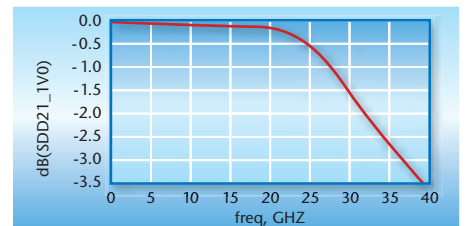
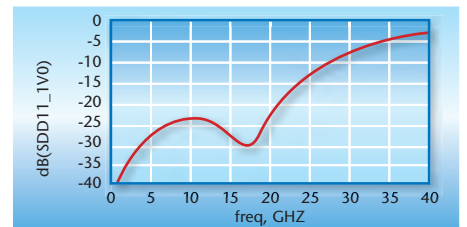
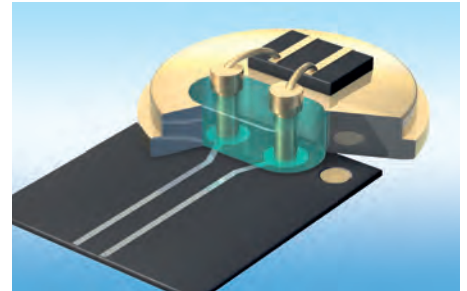
SCHOTT TO PLUS®

Product Information

SCHOTT TO PLUS® is a TO header with enhanced performance for high speed data rates of 10Gbit/s and above. In a recent breakthrough the same line of headers was further tweaked and proven to have worked at data rates of 17Gbit/s. Through this breakthrough, in which the bandwidth of a TO is enhanced, end users are now able to keep costs in check by utilizing the existing infrastructure of assembly and manufacturing. With the use of the TO PLUS® transceiver, manufacturers need not resort to complex flat or ceramic packages.

Advantages

- **Hermetically sealed using proven glass-to-metal sealing technology:** TO headers have been used in the market for several decades due to their proven reliability and performance. The TO PLUS® header line utilizes the same technology to deliver the same kind of reliability.
- **Excellent RF Performance:** With matched impedance the headers are able to have low insertion and return losses for high data rates of 10Gbit/s and above.
- **Existing Outlines:** Since the enhancement is achieved by a combination of glass, pins and placement only, a TO PLUS® can be built from any existing outline of TO headers, such as TO46, TO56, TO38, etc. This allows end users to utilize the same mating optical caps and manufacturing techniques / infrastructure.
- **One-stop-shopping** due to vertically integrated manufacturing, from materials to components.



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Preliminary Specifications	
Platform:	TO PLUS®
Outlines:	TO46, TO56, TO38, Custom TO
Impedance:	25 Ω / 50 Ω / 100 Ω
	Single / Differential
Return Loss S11 @ 10Ghz	< -20 dB
Insertion Loss S21 @ 10Ghz	> -1 dB

Applications	
10G Headers for VCSEL's in Fiber Channel 4G / 8G	
For LAN / Gigabit Ethernet Applications	
17G Fiber Channel	

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