

**Easily adapted to application specific design and performance constraints.
Please contact Inside Sales for details.*

Features & Benefits

- System based on NTT-SC* standard
- System integrates:
 - BSC or BSCII backplane connector
 - Backplane adapter
 - NTT-SC standard connector
- Backplane connector:
 - PC board mountable: blind mate coupling
 - Tunable feature for the BSCII
 - Removable ferrule assembly
 - Stackable design for multiple channels
 - Floating ferrule design is self-aligning
- Low insertion loss:
 - < .2 dB TYP MM
 - < .15 dB TYP SM
- Backplane adapters:
 - Traditional SC style
 - SC style with shutter

Applications

- Telecommunication equipment
 - Transmission
 - Switching
 - Multiplexing
- Broadband equipment
 - Amplifiers
- Computing equipment

The BSC and BSCII backplane connector systems have been designed to provide a smooth transition from the board mounted and pigtailed devices (LED's, lasers, receivers, and WDM devices) to the SC based fiber optic network. Pigtailed active devices, located anywhere on the daughter card, are terminated to the card edge mounted BSC or BSCII connectors. These connectors provide a blind mating interface through backplane BSC adapters to the SC network.

The BSC connector family's blind mating interface provides the daughter card with a plug-in feature that allows the card to be inserted, or exchanged without disrupting the input/output ports or their associated cabling. The BSCII connector, backward compatible with the original BSC, provides additional float in the Y ($\pm.030$ ") and Z (.080") axis. This increased float, provides the BSCII with additional capacity to compensate for the imprecision of card cages. For multiple fiber applications, alignment pins in the housing allow the connectors to be stacked.

BSC / BSCII to standard SC connector mating is accomplished through the BSC / BSCII adapters which are available with either zirconia ceramic or phosphor bronze sleeves. In addition to the traditional SC style adapter, a shuttered SC version, which shields against laser exposure and dust contamination, is also available.

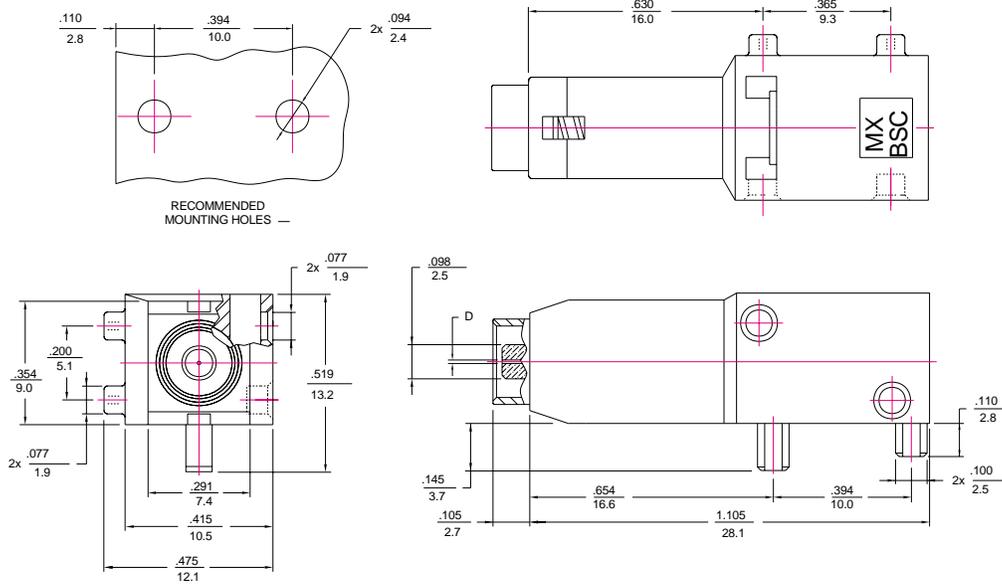
*NTT-SC is a trademark of NTT Advanced Technology Corporation

SC Backplane Connector System (BSC/BSCII)

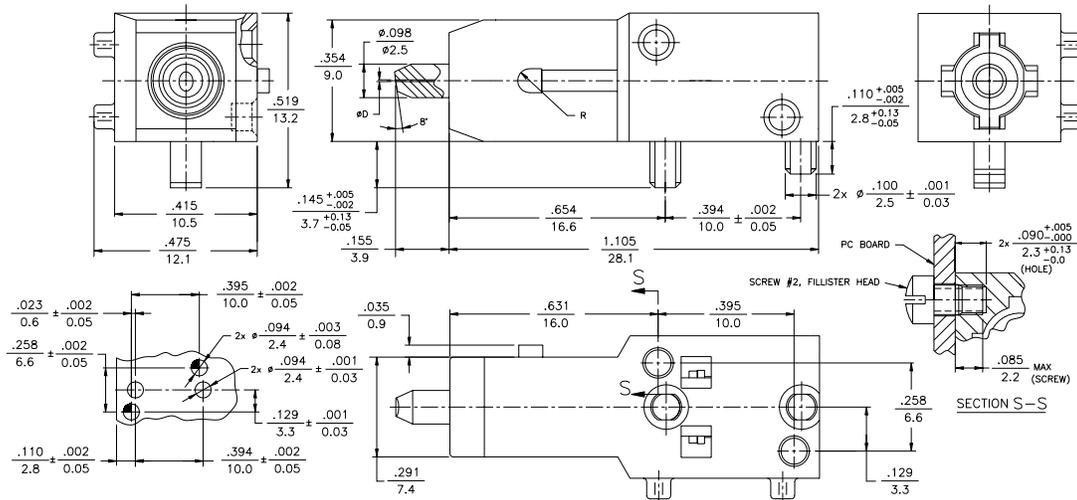


Mechanical Dimensions

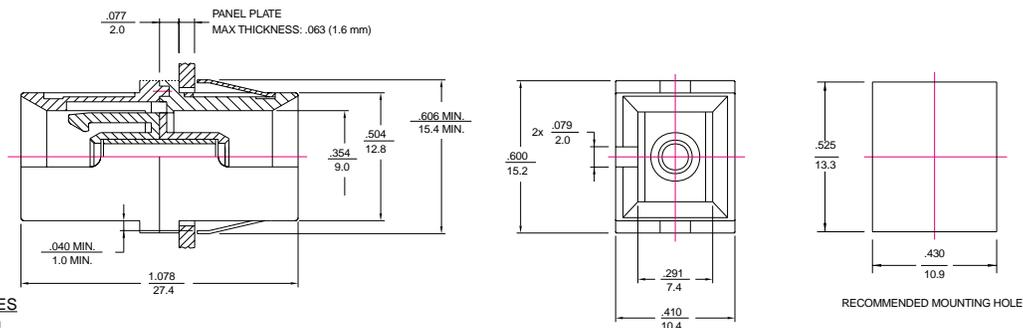
BSC Backplane Connector



BSCII / APC Connector



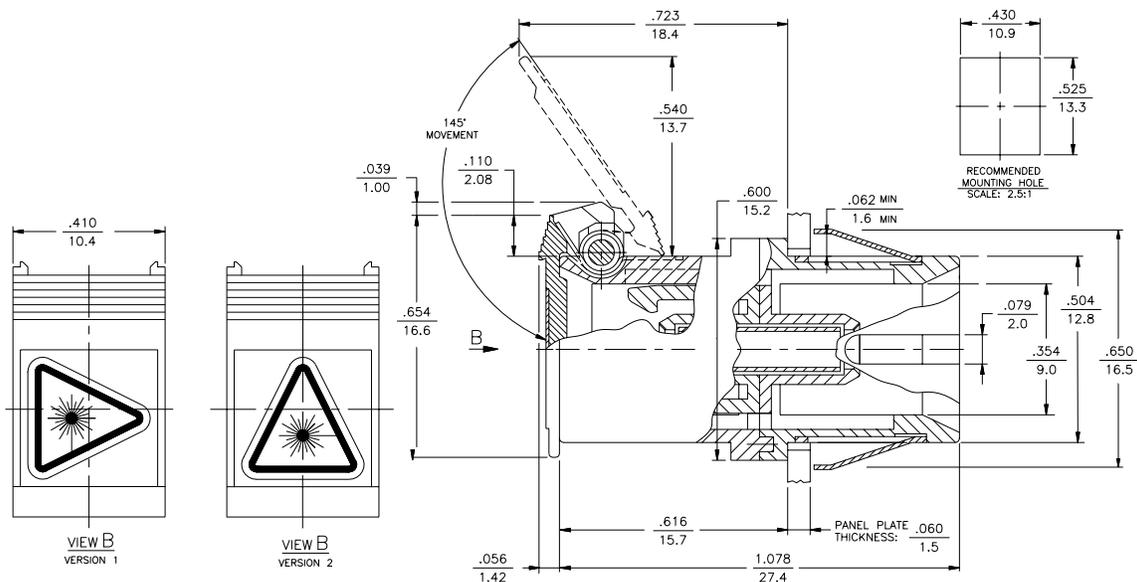
BSC Backplane Adapter



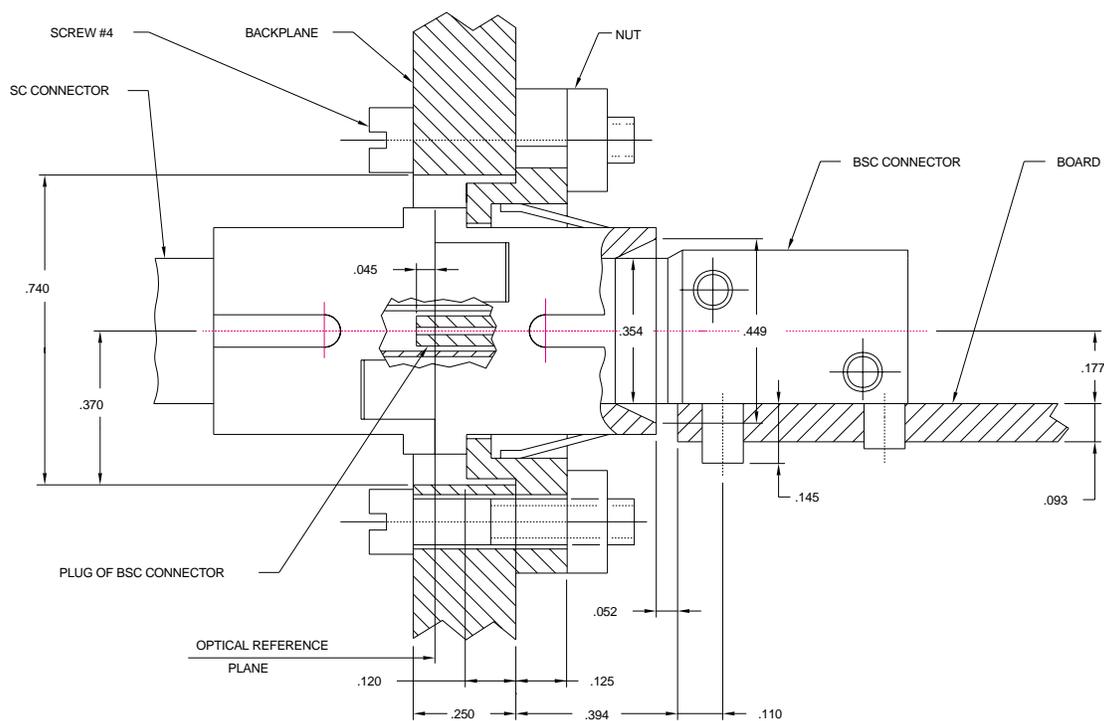
All dimensions in **INCHES**
mm

Mechanical Dimensions

BSCII Adapter with Shutter



BSC Backplane Connector System Assembly



SC Backplane Connector System (BSC/BSCII)



Standard Part Numbers

Order Number	Description	Hole size	Cable size
86070-3000	BSC backplane connector, MM, zirconia PC ferrule, buffered fiber [†]	128µm	900µm buffered fiber
86070-5000	BSC backplane connector, SM, zirconia PC ferrule, buffered fiber [†]	126µm	900µm buffered fiber
86075-5000	BSC backplane connector, APC, SM, zirconia PC ferrule, buffered fiber [†]	126µm	900µm buffered fiber
86171-0000	BSC backplane adapter, MM, phosphor bronze alignment sleeve, black housing		
86170-0000	BSC backplane adapter, SM, zirconia alignment sleeve, black housing		
86171-0030	BSC backplane adapter, MM, phosphor bronze alignment sleeve, red housing		
86170-0030	BSC backplane adapter, SM, zirconia alignment sleeve, red housing		
86170-0020	BSC backplane adapter, APC, SM, zirconia alignment sleeve, green housing		
86171-0020	BSC backplane adapter, APC, MM, phosphor bronze alignment sleeve, green housing		
86170-0400	BSC backplane adapter, SM, zirconia alignment sleeve, black housing, shutter		
86171-0400	BSC backplane adapter, MM, phosphor bronze alignment sleeve, black housing, shutter		
86170-0430	BSC backplane adapter, SM, zirconia alignment sleeve, red housing, shutter		
86171-0430	BSC backplane adapter, MM, phosphor bronze alignment sleeve, red housing, shutter		
86170-0420	BSC backplane adapter, APC, SM, zirconia alignment sleeve, green housing, shutter		
86171-0420	BSC backplane adapter, APC, MM, phosphor bronze alignment sleeve, green housing, shutter		
86800-6501	BSC backplane adapter mounting plate, 2 positions		
86800-6502	BSC backplane adapter mounting plate, 4 positions		
86800-6503	BSC backplane adapter mounting plate, 2 positions, vertical		
86071-3000	BSCII backplane connector, MM, zirconia PC ferrule, buffered fiber [†]	128µm	900µm buffered fiber
86071-5000	BSCII backplane connector, SM, zirconia PC ferrule, buffered fiber [†]	126µm	900µm buffered fiber
86076-5000	BSCII backplane connector, APC, SM, zirconia PC ferrule, buffered fiber [†]	126µm	900µm buffered fiber
86171-2000	BSCII backplane adapter, MM, phosphor bronze alignment sleeve, black housing		
86170-2000	BSCII backplane adapter, SM, zirconia alignment sleeve, black housing		
86171-2030	BSCII backplane adapter, MM, phosphor bronze alignment sleeve, red housing		
86170-2030	BSCII backplane adapter, SM, zirconia alignment sleeve, red housing		
86170-2020	BSCII backplane adapter, APC, SM, zirconia alignment sleeve, green housing		
86171-2020	BSCII backplane adapter, APC, MM, phosphor bronze alignment sleeve, green housing		
86170-2400	BSCII backplane adapter, SM, zirconia alignment sleeve, black housing, shutter		
86171-2400	BSCII backplane adapter, MM, phosphor bronze alignment sleeve, black housing, shutter		
86170-2430	BSCII backplane adapter, SM, zirconia alignment sleeve, red housing, shutter		
86171-2430	BSCII backplane adapter, MM, phosphor bronze alignment sleeve, red housing, shutter		
86170-2420	BSCII backplane adapter, APC, SM, zirconia alignment sleeve, green housing, shutter		
86171-2420	BSCII backplane adapter, APC, MM, phosphor bronze alignment sleeve, green housing, shutter		
86800-6543	BSCII backplane adapter mounting plate, 2 positions		
86800-6542	BSCII backplane adapter mounting plate, 4 positions		
86800-6541	BSCII backplane adapter mounting plate, 2 positions, vertical		

[†]BSC connector is typically offered in a pigtail assembly form. Please contact Inside Sales for part number information.