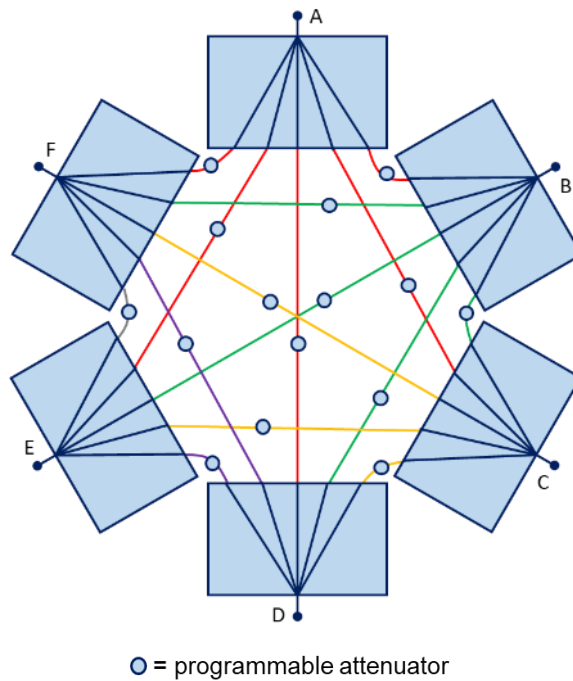


50Ω 600-6000 MHz



Model Name	Connector Type
ZTMN-0695B-S	SMA female
ZTMN-0695B-N	N-type female
ZTMN-0695B-T	TNC female

Functional Block Diagram



Rev	Date	Description
X0	6-Oct-17	Initial datasheet prepared
X1	18-Apr-18	Added image / drawing
X2	24-Apr-18	Added test data / updated specifications

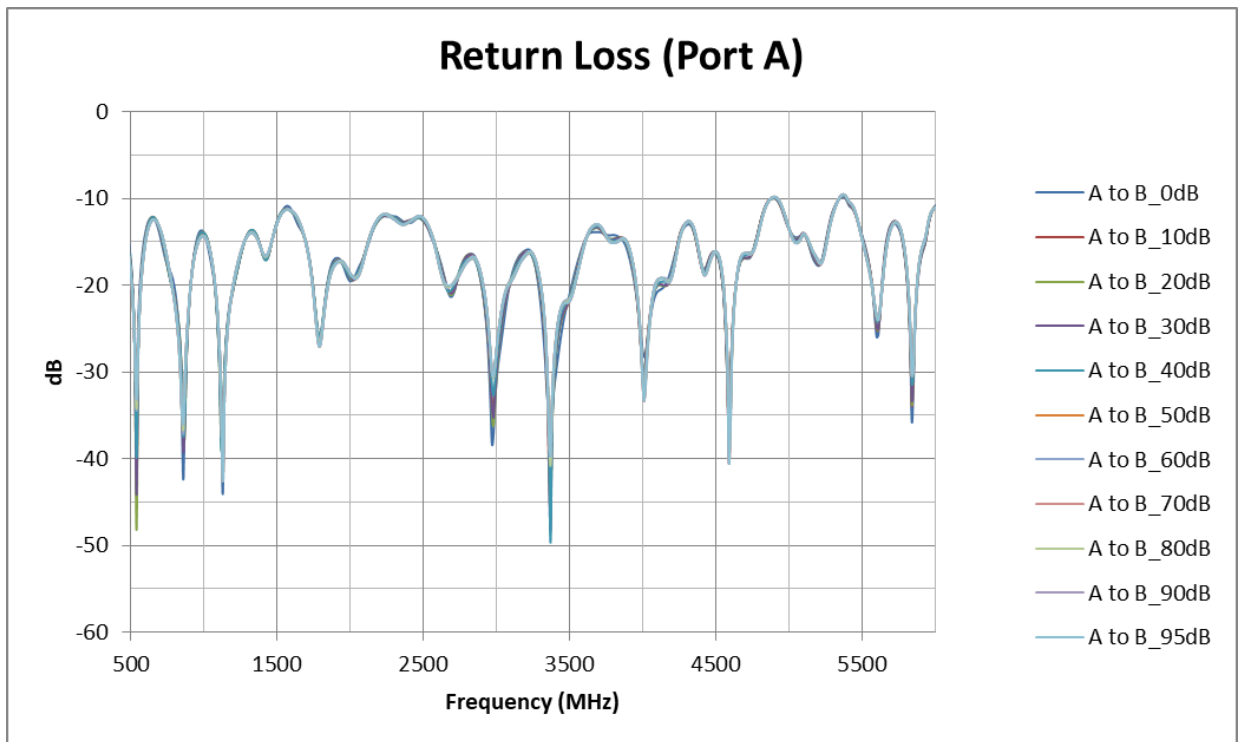
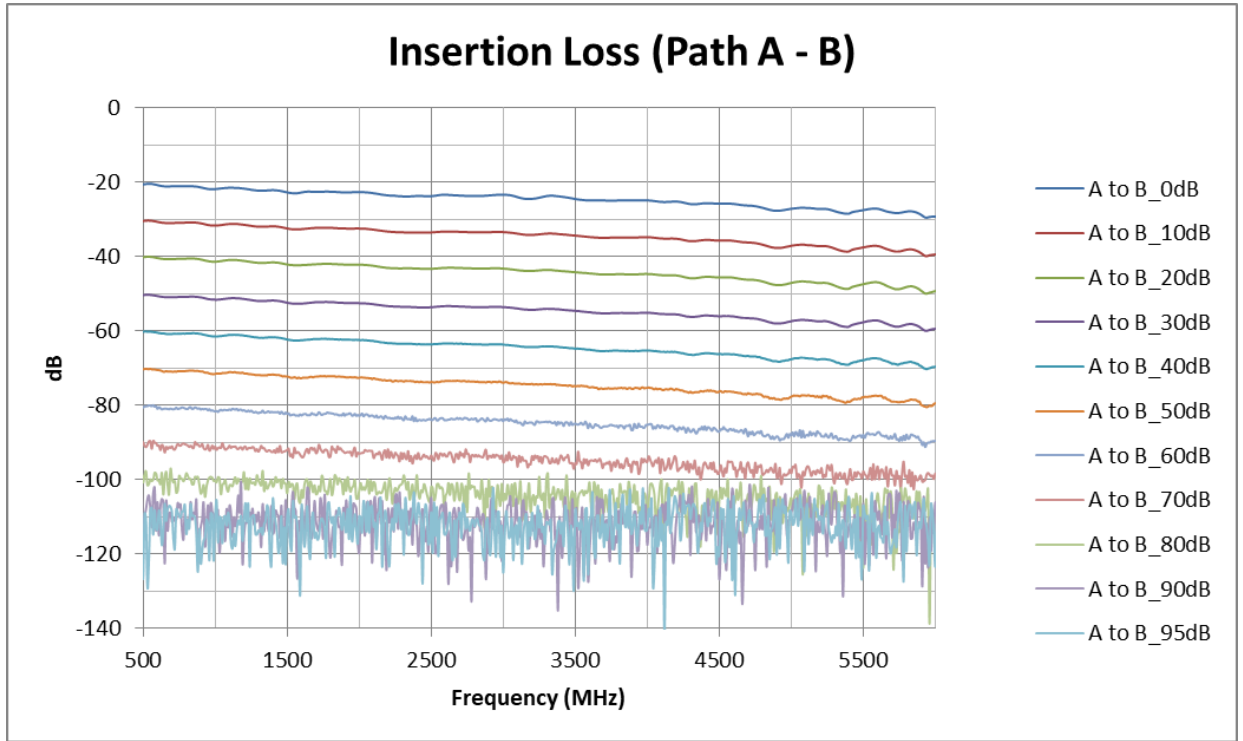
Mechanical Specifications

Dimensions	19" (W) x 2U (H) x 20" (D)
Case Material	Aluminum (with protective coatings to prevent corrosion)
Case Drawing	99-01-2646
RF Connectors	<ul style="list-style-type: none"> • ZTMN-0695B-S: SMA female • ZTMN-0695B-N: N-type female • ZTMN-0695B-T: TNC female
Front Panel Marking	<ul style="list-style-type: none"> a) Mini-Circuits part number b) 6-Port Mesh Network Test Drawer c) 600-6000 MHz
Front panel	<ul style="list-style-type: none"> a) 6 x RF ports b) ON/OFF switch with indicator light c) Carry handles
Rear panel	<ul style="list-style-type: none"> a) AC mains power supply input b) USB & RJ45 control connections c) Label with date code/serial number/MCL part# for traceability
Control Interface	USB and Ethernet TCP/IP supporting HTTP and TELNET protocols
Power supply	<ul style="list-style-type: none"> a) AC mains power supply (90-260 V, 47-63 Hz) b) 2A, 250V fuse rating
Operating temp	0° to +50° C

Electrical Specifications at 25°C

Parameter	Conditions	Min	Typical	Max	Unit
Frequency		600		6000	MHz
Insertion Loss	600 – 3000 MHz		23	26	dB
	3000 – 6000 MHz		28	31	
Return Loss	600 – 6000 MHz		12		dB
Attenuation Range	Per Path	0		95	dB
Attenuation Step Size	0 – 90 dB Range		0.25		dB
	90 – 95 dB Range		0.50		
Attenuation Accuracy	3000 MHz (See RC4DAT-6G-95 Datasheet for Details)		+/- 0.5		dB
Input Power				+27	dBm

Electrical Performance @ 25°C



Software Specifications

Software & Documentation Download:

- Mini-Circuits' full software and support package including user guide, Windows GUI, DLL files, programming manual and examples are available on request
- Please contact testsolutions@minicircuits.com for support

Minimum System Requirements:

Parameter	Requirements	
Interface	USB HID & Ethernet (HTTP & Telnet)	
System Requirements	GUI	Windows 98 or later
	USB API DLL	Windows 98 or later and programming environment with ActiveX or .NET support
	USB Direct Programming	Linux; Windows 98 or later
	Ethernet	Windows, Linux or Mac computer with a network port and Ethernet TCP / IP support
Hardware	Pentium II or later with 256 MB RAM	

Application Programming Interface (API)

Ethernet Support:

- Simple ASCII / SCPI command set for attenuator control
- Communication via HTTP or Telnet
- Supported by most common programming environments

USB Support (Windows):

- ActiveX COM DLL file for creation of 32-bit programs
- .NET library DLL file for creation of 32 / 64-bit programs
- Supported by most common programming environments (refer to application note [AN-49-001](#) for summary of supported environments)

USB Support (Linux):

- Direct USB programming using a series of USB interrupt codes

Full programming instructions and examples available for a wide range of programming environments / languages.

Graphical User Interface (GUI) for Windows - Key Features

- Connect via USB or Ethernet
- Run GUI in “demo mode” to evaluate software without a hardware connection
- View and set all attenuation channels independently or in groups
- Configure automated attenuation sweep or hop sequences for groups of channels
- Configure Ethernet settings
- Upgrade firmware

Model Name: ZTMN-0695B
 Serial Number: 123456789
 Channels: 16
 User Name: Admin
 Connection: Telnet (Demo)
 IP: 10.10.10.10
 Port: 23

Set Attenuation

Select Channel(s) -
 Single Channel Multi Channels
 All Channels
 Group: []

Set Attenuation (0 -95 dB):
 [95.00] [Apply]
 Auto Apply

Current Attenuation -
 Channel: 01A: Path A<>B
 Attenuation: 95.00 dB

ZTMN-0695B	A	B	C	D
1	Path A<>B 95.00	Path A<>D 95.00	Path B<>C 95.00	Path A<>C 95.00
2	Path B<>D 95.00	Path A<>F 95.00	Path B<>E 95.00	Path A<>E 95.00
3	Path C<>D 95.00	Path D<>E 95.00	Path E<>F 95.00	INACTIVE 95.00
4	Path B<>F 95.00	Path C<>F 95.00	Path D<>F 95.00	Path C<>E 95.00

Connection Options
 Automation Mode
 Configuration Settings
 Ethernet Settings
 Firmware
 Users Control

Mechanical Drawing

