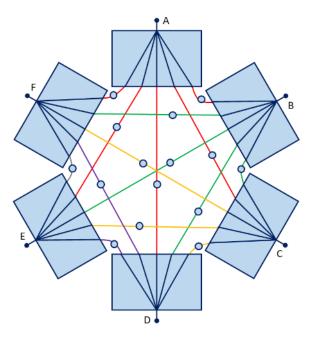
50Ω 2000-6000 MHz



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

Functional Block Diagram



= programmable attenuator

Rev	Date	Description
X0	2-Jul-18	Initial datasheet prepared

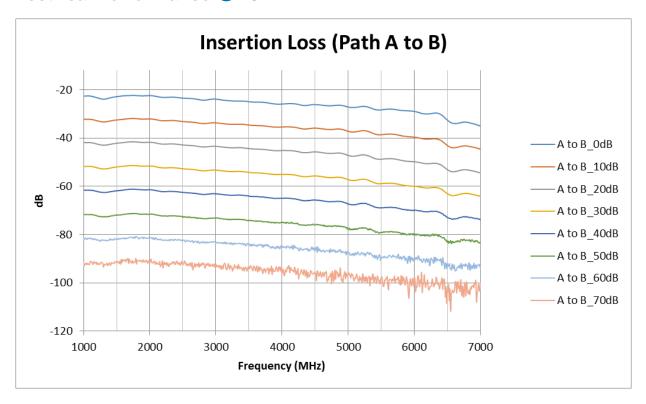
Mechanical Specifications

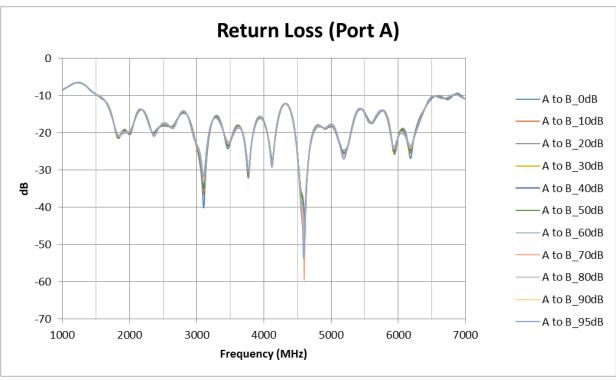
r	408 (44) - 014 (41) - 008 (72)	
Dimensions	19" (W) x 2U (H) x 20" (D)	
Case Material	Aluminum (with protective coatings to prevent corrosion)	
Case Drawing	99-01-2646	
RF Connectors	ZTMN-0695A-S: SMA female	
	ZTMN-0695A-N: N-type female	
	ZTMN-0695A-T: TNC female	
Front Panel Marking	a) Mini-Circuits part number	
	b) 6-Port Mesh Network Test Drawer	
	c) 2000-6000 MHz	
Front panel	a) 6 x RF ports	
	b) ON/OFF switch with indicator light	
	c) Carry handles	
Rear panel	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	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		2000		6000	MHz	
Insertion Loss	@ 2 GHz		23		dB	
	@ 6 GHz		29			
Return Loss	600 – 6000 MHz		12		dB	
Attenuation Range	Per Path	0		95	dB	
Attenuation Step	0 – 90 dB Range		0.25		4D	
Size	90 – 95 dB Range		0.50		dB	
Attenuation Accuracy	3000 MHz (See RC4DAT-6G-95 Datasheet for Details)		+/- 0.5		dB	
Input Power	,			+30	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 <u>AN-49-001</u> for summary of supported environments)

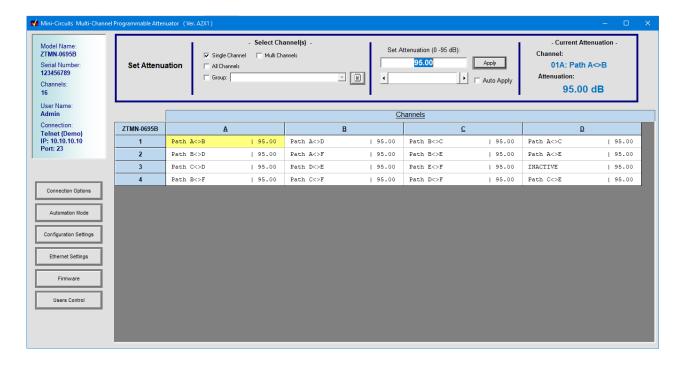
USB Support (Linux):

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



Mechanical Drawing

