



PROGRAMMABLE ATTENUATOR

MVE2P18-100

0.001 to 6GHz
4/4 CHANNEL
0-100dB

Features

- ✓ High Attenuation levels up to 100dB
- ✓ Step Resolution of 0.25dB
- ✓ Small Size, High Accuracy



Specifications

PART NUMBER	FREQUENCY	ATTENUATION RANGE	VSWR	CONNECTOR TYPE	CONTROL	SWITCHING SPEED
MVE2P18-100	0.001-6GHz	0-100dB	2.1:1 MAX. 1.5:1 TYP.	SMA Female	LAN(RJ45) 、 USB(TYPE-C)	2us

ATTENUATION ACCURACY

$\pm(0.3+6.5\%Att)dB@1MHz-6GHz$

RF Input Power

30dBm MAX.

POWER SUPPLY

+5V

IMPEDANCE

50ohm

INSERTION LOSS

14dB @ 1MHz-6GHz MAX.

ENVIRONMENTAL

OPERATING TEMPERATURE : -20°C TO +70°C

MATERIALS

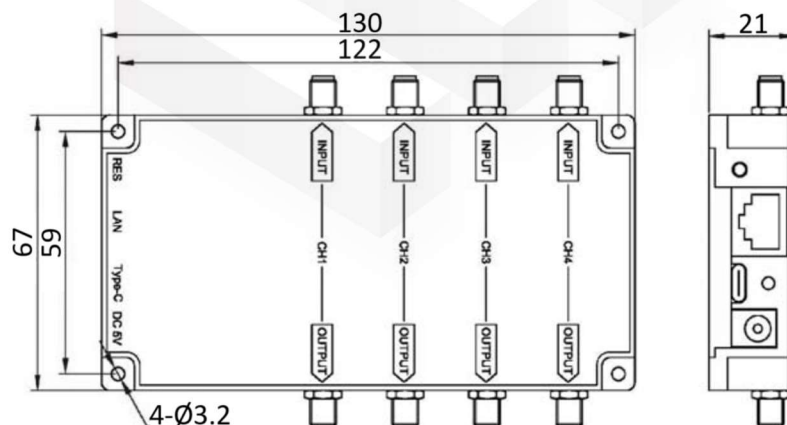
CONNECTOR: BRASS, NICKLE OR GOLD PLATED

CENCTOR CONDUCTOR: BERYLLIUM BRONZE, GOLD PLATED

BODY: ALUMINUM (Aluminum scratches more easily than more durable materials.), SAND BLASTING

Tolerance: X= $\pm 5\%$

Outline Drawing (Unit: mm)



NOTES:

1. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME
2. CUSTOMER OUTLINE DRAWING FOR REFERENCE ONLY





Transmission Control Protocol:

Configuration Environment

All commands should be typed in halfwidth and should be ended by \r\n

<CR>= Carriage return <LF>= Line feed

Telnet connecting Hardware	Network Cable
TCP port	23
IP Address	Default IP: 192.168.0.7 Netmask :255.255.255.0 broadcast :192.168.0.1

USB connecting Hardware	TYPE-C
Baud Rate	9600
Data Bit	8 bit
Parity Bit	NO
Stop Bit	1



Format

IP SETTING	
Format	SetNETWORK <1>-<2>-<3>-<4>
Description	<1>: IP address <2>: broadcast <3>: netmask <4>: port
Response	SetNETWORK Success
Fail Response	SetNETWORK Fail
Example	SetNETWORK 192.168.1.200-192.168.1.1-255.255.0.0-4001 Response: >>SetNETWORK Success
IP SEARCHING	
Format	LstNETWORK
Response	IP, NETGATE and NETMASK
Fail Response	None
Example	LstNETWORK Response: >>IP:192.168.1.200-NETGATE:192.168.1.1-NETMASK:255.255.0.0-PORT:4001
ATTENUATION SETTING	
Format	SA n m
Description	n: number of attenuation m: attenuation value
Response	>> A1:2;<CR><LF>
Fail Response	>>A1:err;<CR><LF>
Example	SA<space>1<space> 2<CR><LF> Response: >>A1:2;
SITUATION OF CURRENT ATTENUATION	
Format	RA n
Description	n: number of attenuation
Response	>> RA1:2;<CR><LF>
Fail Response	>>RA1:err;<CR><LF>
Example	RA<space>1<CR><LF> Response: >>RA1:10;



Programmable Attenuators System

(For reference only)

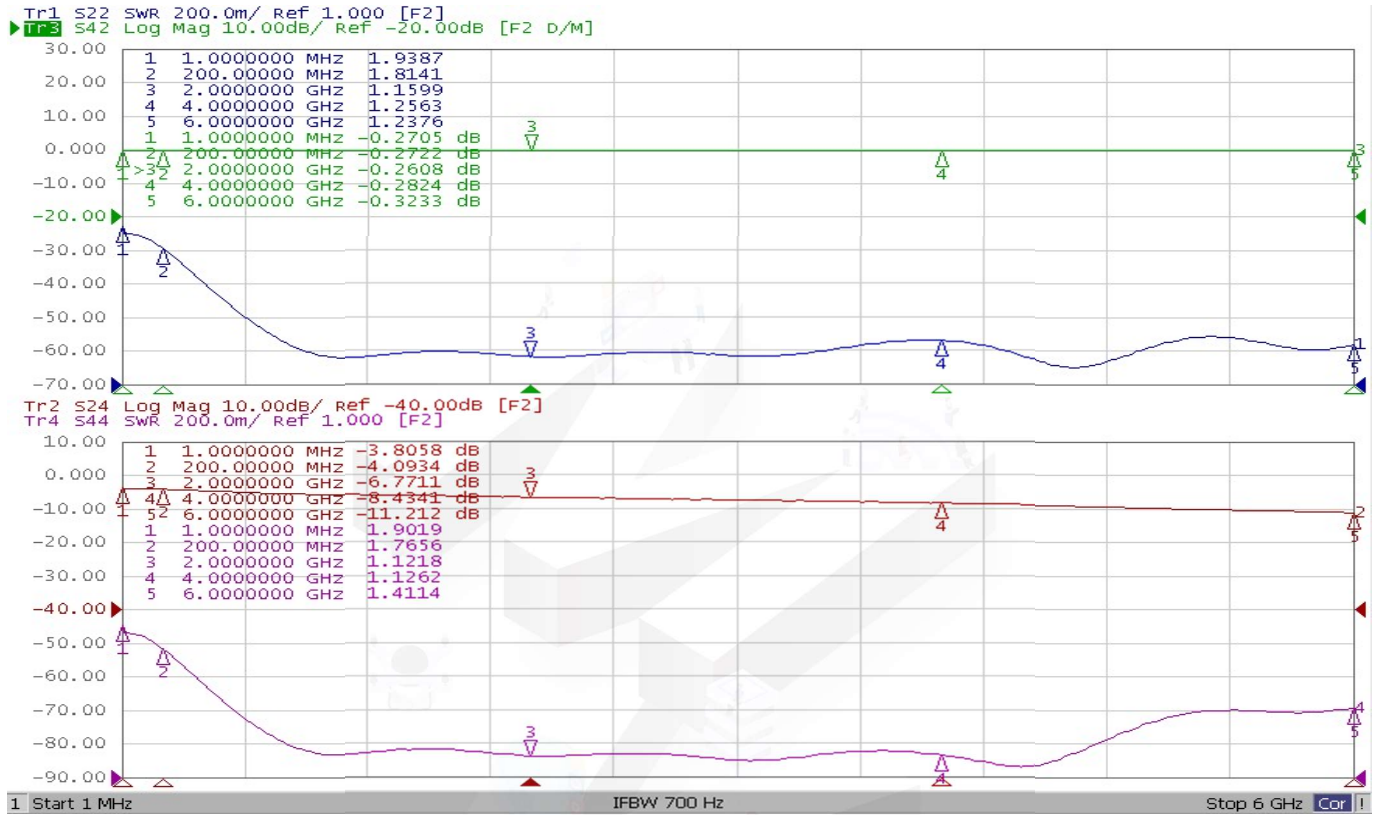
The screenshot shows a web-based control interface for the Programmable Attenuators System. At the top, it displays the interface type as 'LAN' and the address and port as 'IP 192.168.0.7 23'. There are 'Link' and 'Screenshot' buttons. The main area features eight circular attenuator channels, numbered 1 through 8, each showing a value of 0. Channel 1 is labeled '1IN1OUT', channel 2 is '2IN2OUT', channel 3 is '3IN3OUT', channel 4 is '4IN4OUT', channel 5 is '5IN5OUT', channel 6 is '6IN6OUT', channel 7 is '7IN7OUT', and channel 8 is '8IN8OUT'. On the right side, there is a 'Channel select' panel with 'Select All', 'Clear', and 'Reverse' buttons. Below this, there are input fields for 'Att Step' (set to 0.25) and 'Att Value' (set to 0), with 'Set' and 'Read' buttons. Further down are 'Save' and 'Load' buttons, followed by 'Export Template' and 'Run Scene File' buttons. At the bottom right, there is an 'Auto Script' button. The status bar at the bottom left shows 'Ready' and the bottom right shows 'Log:OFF | MVE | Max ATT:110dB'.



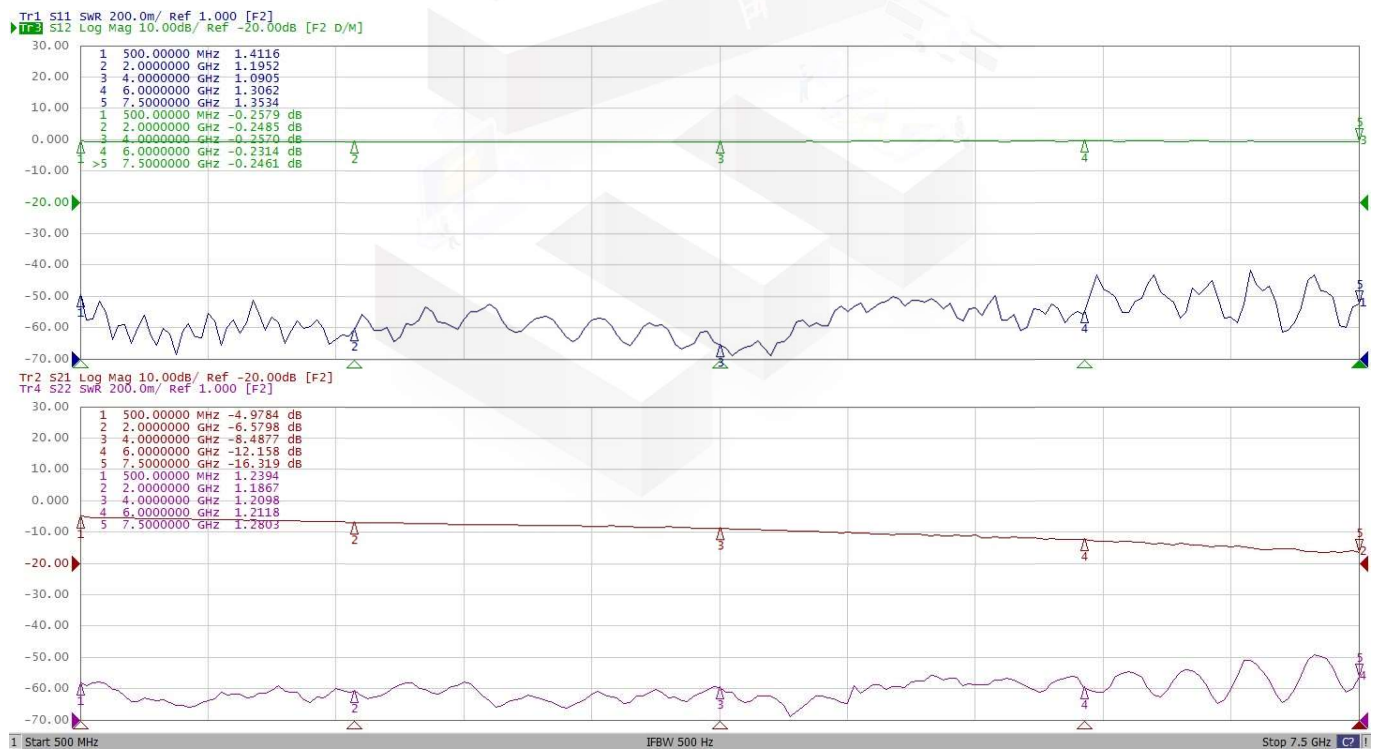


Typical Test Result

INSERTION LOSS (0.25dB)

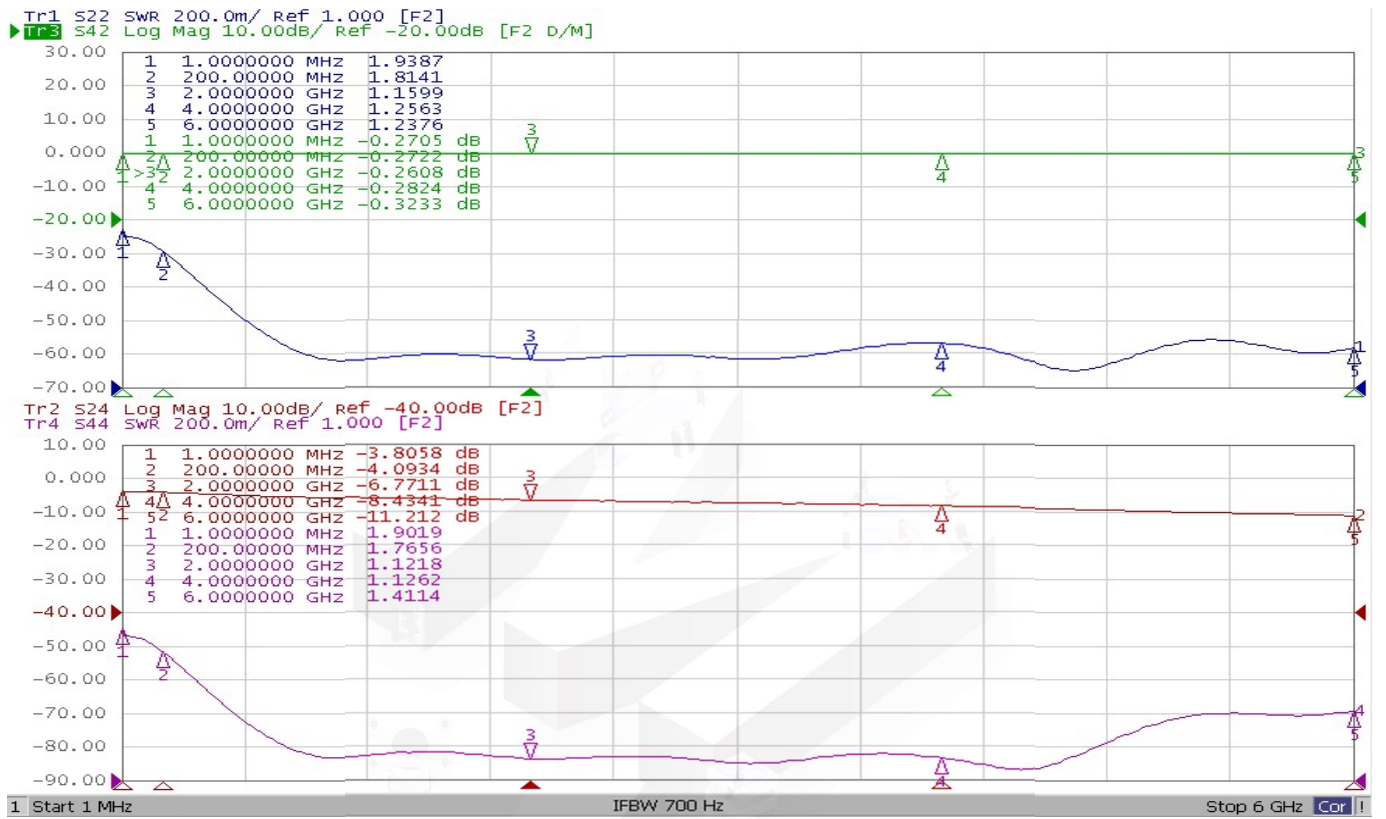


0.5dB

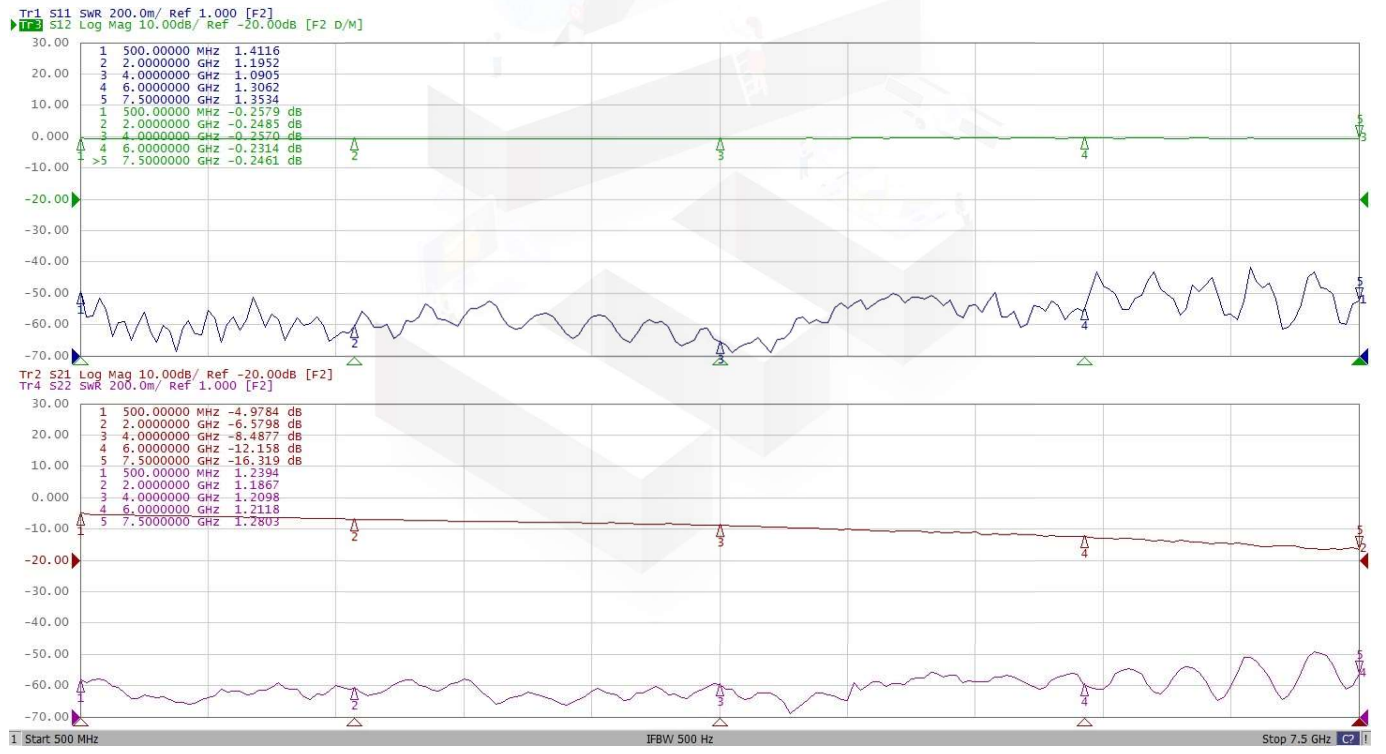




INSERTION LOSS (0.25dB)

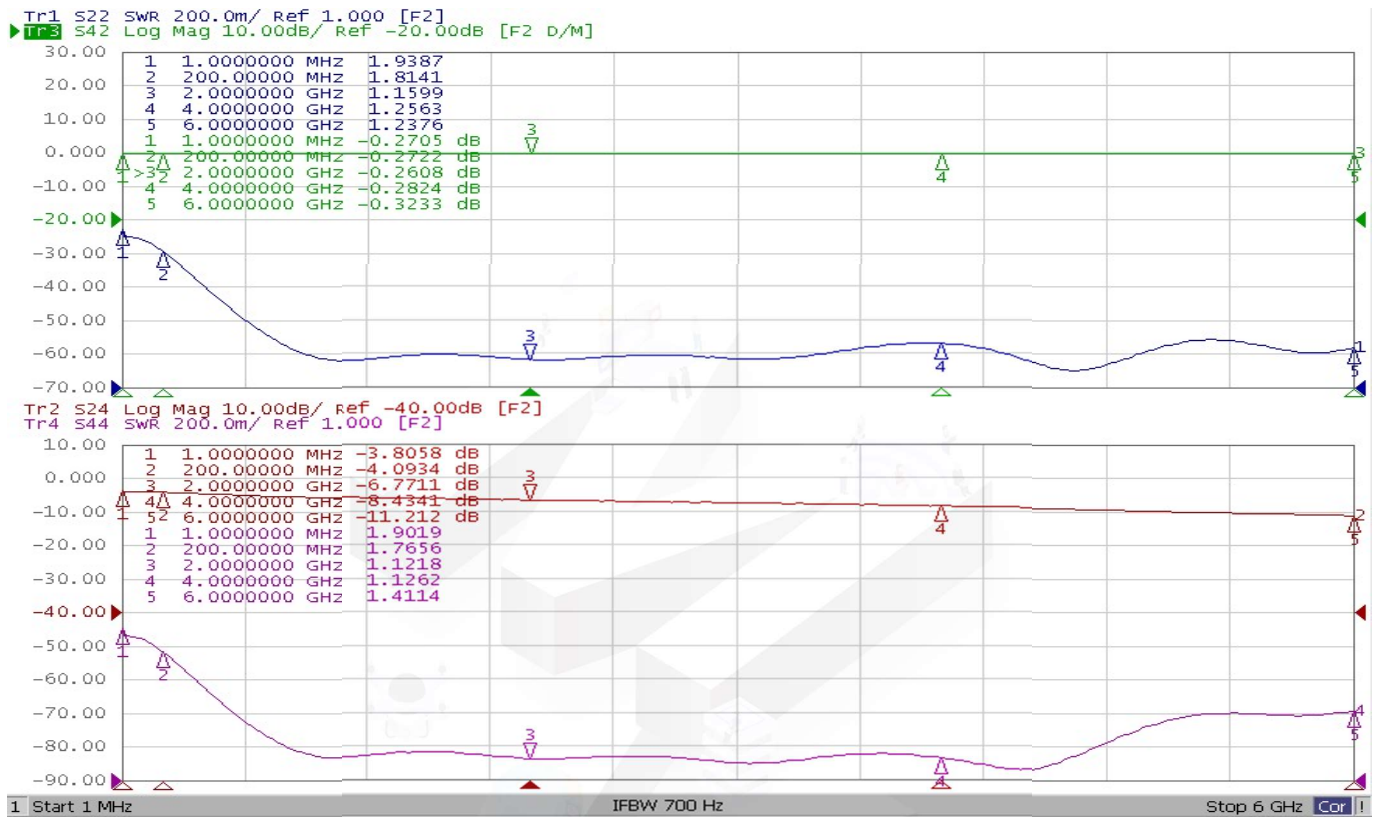


0.5dB

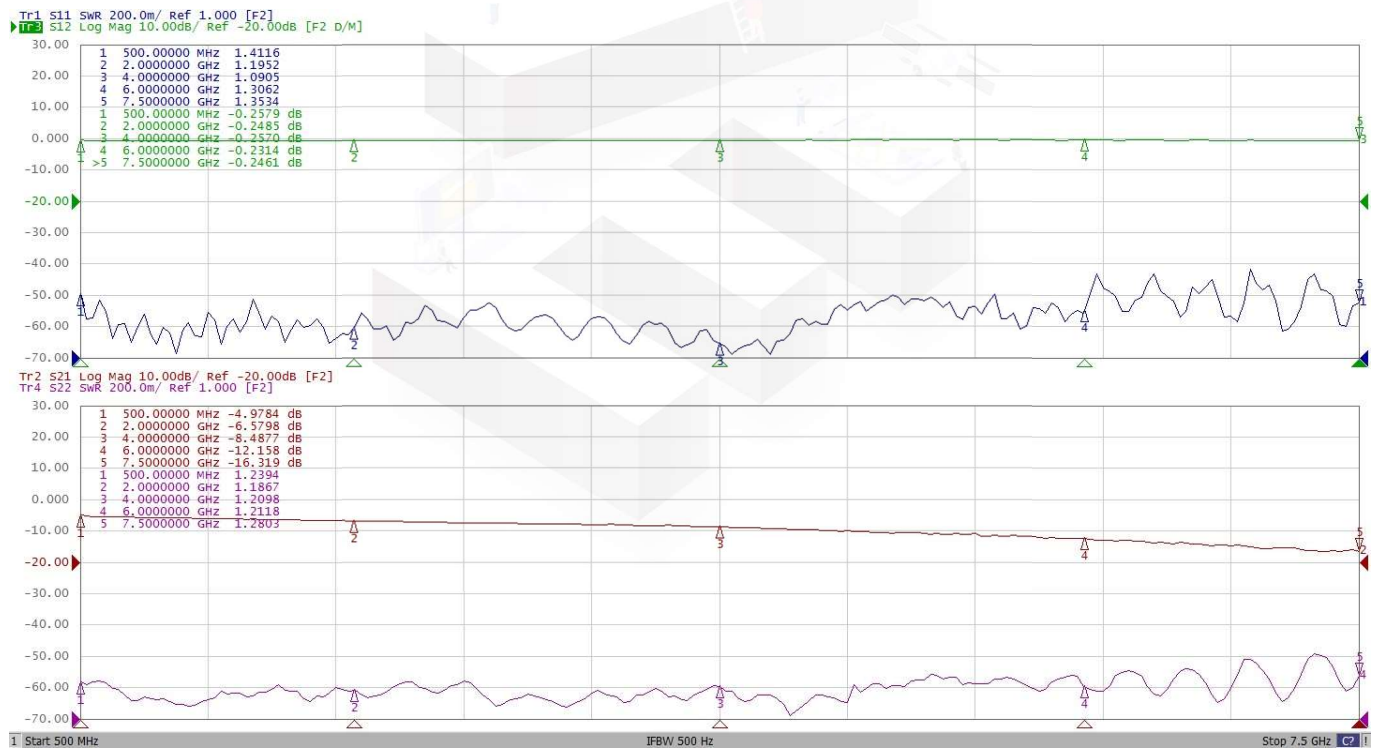




INSERTION LOSS (0.25dB)

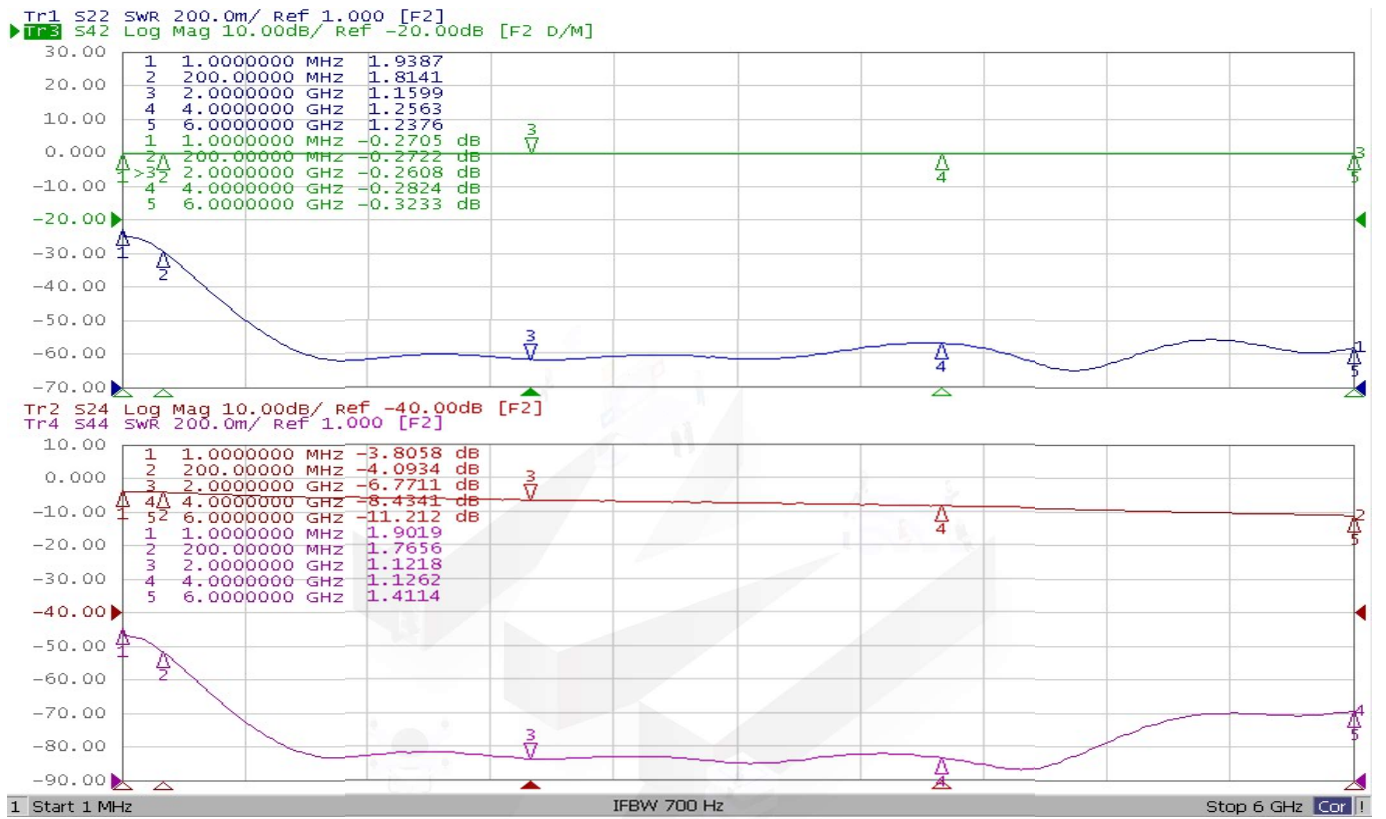


0.5dB





INSERTION LOSS (0.25dB)



0.5dB

