

PROGRAMMABLE ATTENUATOR

MVE2P16-110

0.1 to 8GHz
8 IN / 8 OUT

0.25-70dB(0.1-8GHz) / 70.25dB-100dB(0.1-6GHz)

Features

- ✓ High Attenuation levels up to 100dB
- ✓ Step Resolution of 0.25/0.5/1dB (Option)
- ✓ Small Size, High Accuracy

Specifications



PART NUMBER	FREQUENCY	ATTENUATION RANGE	STEP	VSWR	CONNECTOR TYPE	CONTROL	SWITCHING SPEED
MVE2P16-110	0.1-8GHz	70.25-100dB/0.1-6GHz 0.25-70dB/0.1-8GHz	0.25dB	≤2.0:1	SMA Female	LAN、 USB (TYPE-C)	2us

ATTENUATION ACCURACY

Frequency	dB	MAX
0.1-8GHz	0.25-60	± (0.5+6.5%of Atten.)
	60.25-70	± (0.5+7%of Atten.)
0.1-6GHz	70.25-100	± (0.5+7%of Atten.)
	90.25-100	± (1.0+9%of Atten.)

RF Input Power

30dBm MAX.

POWER SUPPLY

+5V

IMPEDANCE

50ohm

INSERTION LOSS

17 dB @ 0.1-8GHz MAX.

ENVIRONMENTAL

OPERATING TEMPERATURE: -20°C to +70°C

MATERIALS

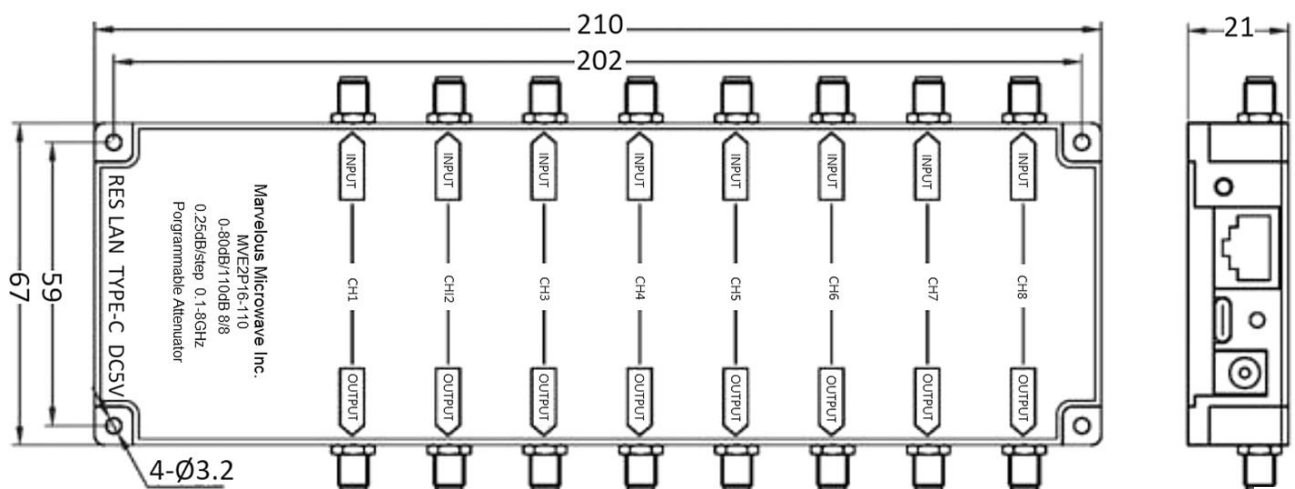
CONNECTOR: BRASS, NICKLE OR GOLD PLATED

CENCTOR CONDUCTOR:BERYLLIUM BRONZE,GOLD PLATED

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

Tolerance: X= ±2%

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>=

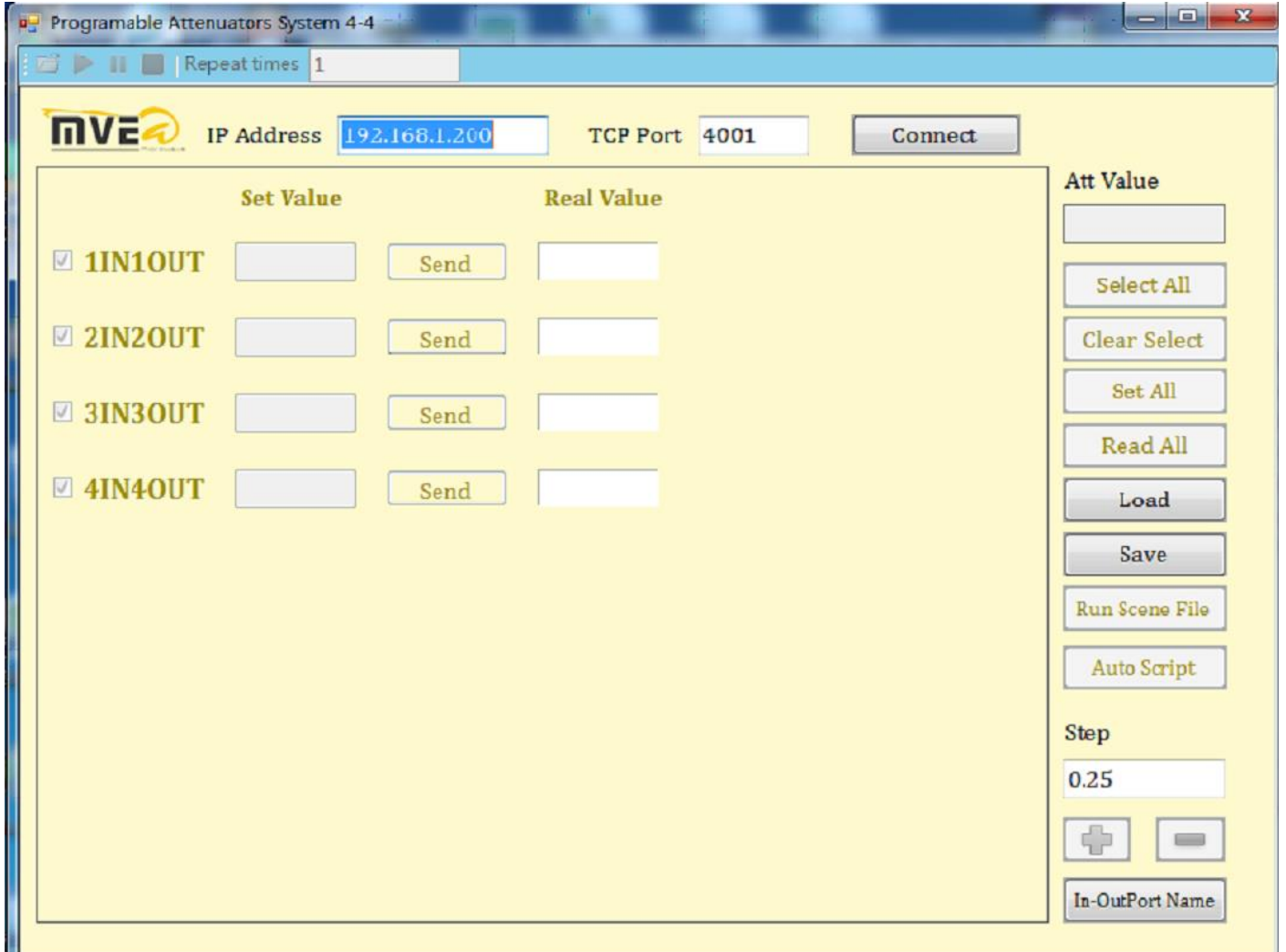
Telnet connecting Hardware	Network Cable
TCP port	4001
IP Address	Default IP: 192.168.1.200 Netmask :255.255.0.0 broadcast :192.168.1.1

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

Format

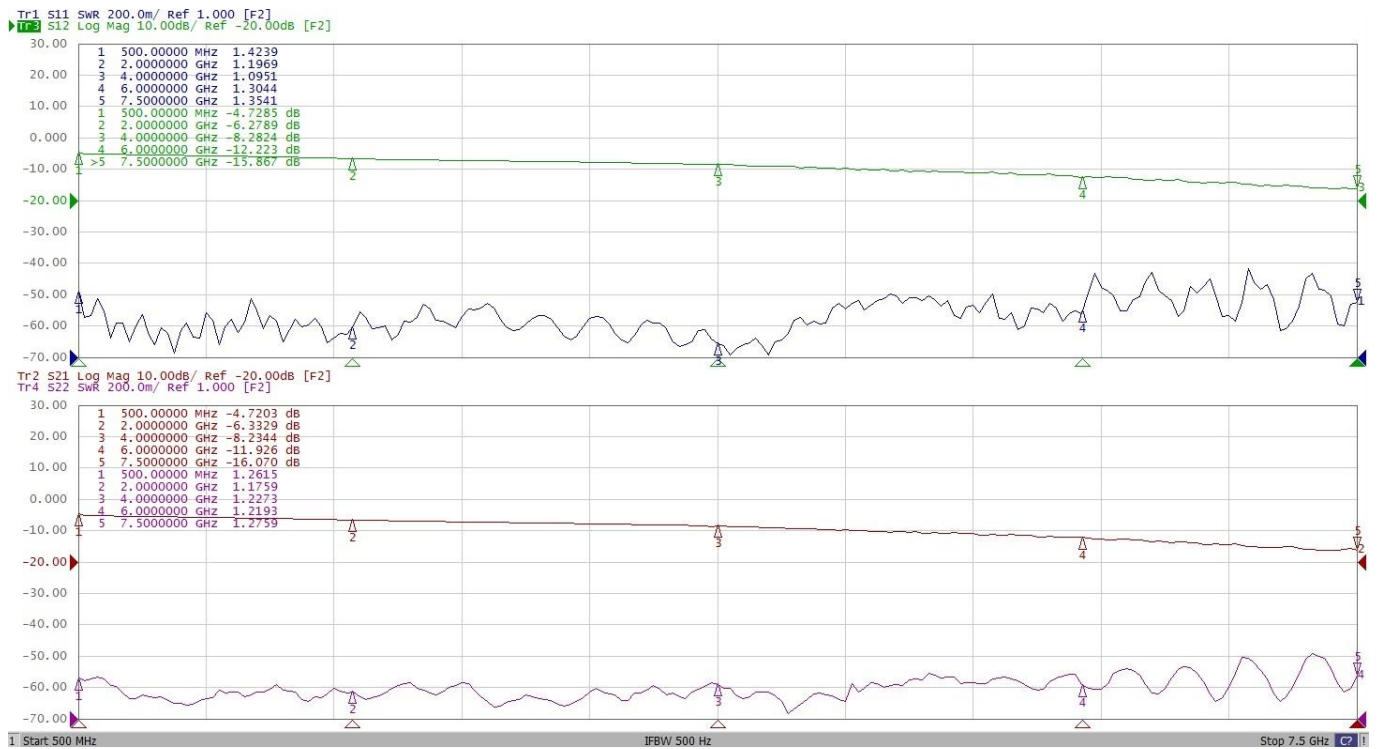
IP SETTING	
Format	SetNETWORK <1>-<2>-<3>-<4>
Description	<1>: IP address <2>: broadcast <3>: netmask <4>: port
Response	SetNETWORK Success
Fail Response	SetNETWORK Fail
Example	SetNETWORK 192.168.1.200-192.168.1.1-255.255.0.0-4001 Response: >>SetNETWORK Success
IP SEARCHING	
Format	LstNETWORK
Response	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

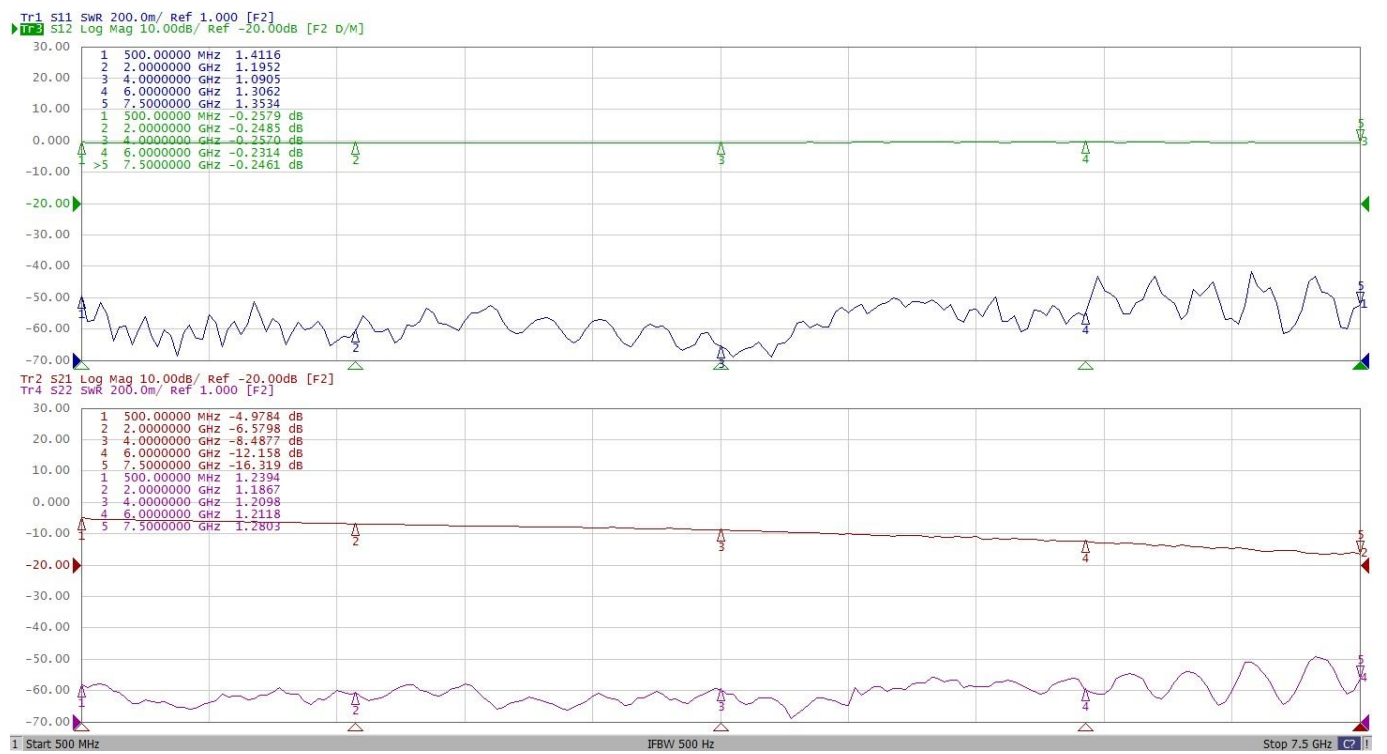


Typical Test Result

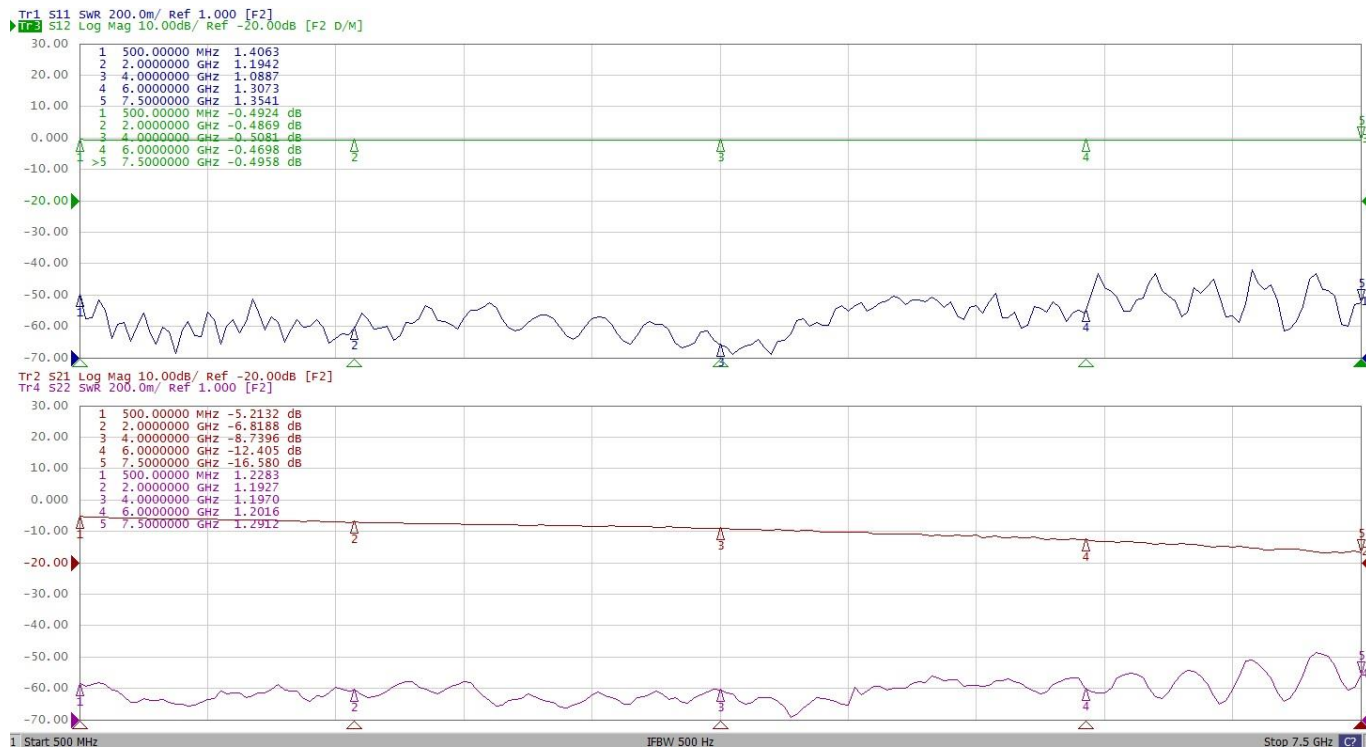
INSERTION LOSS (0dB)



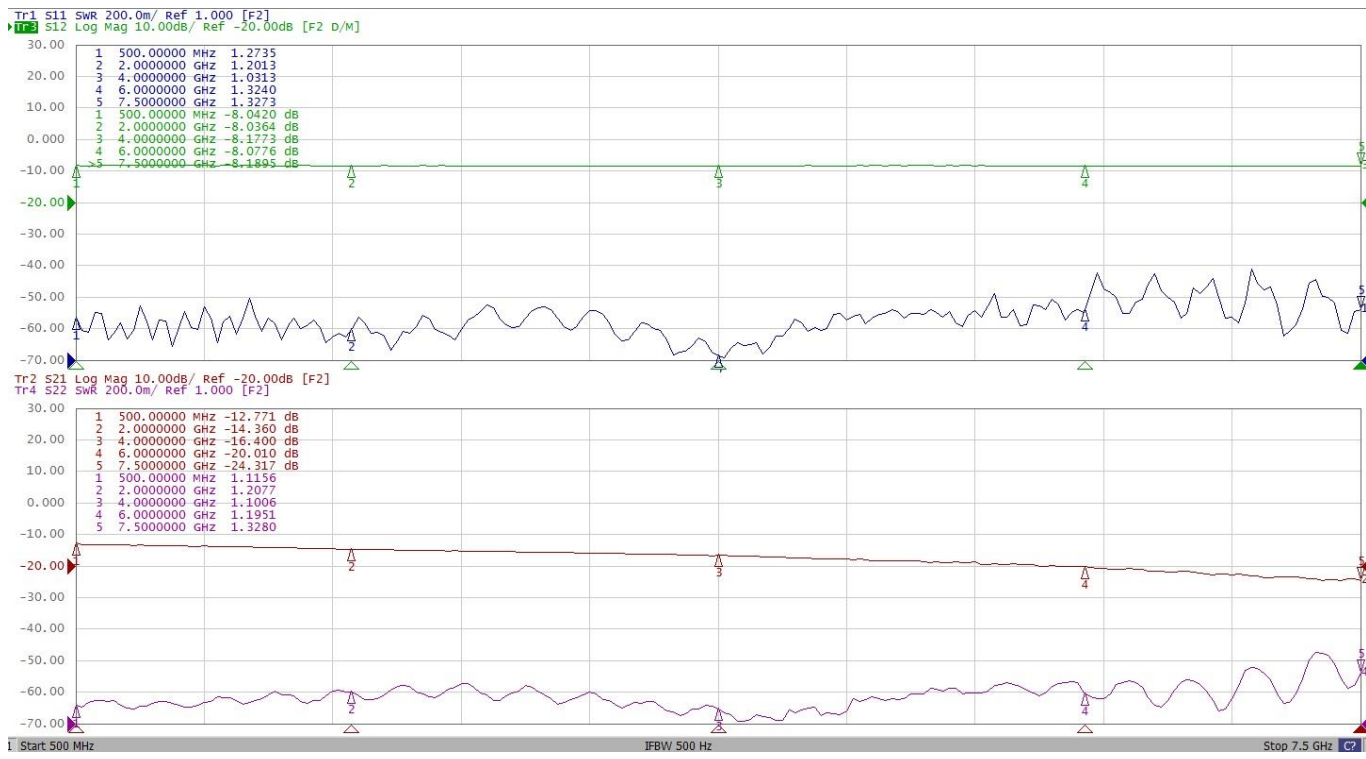
0.25dB



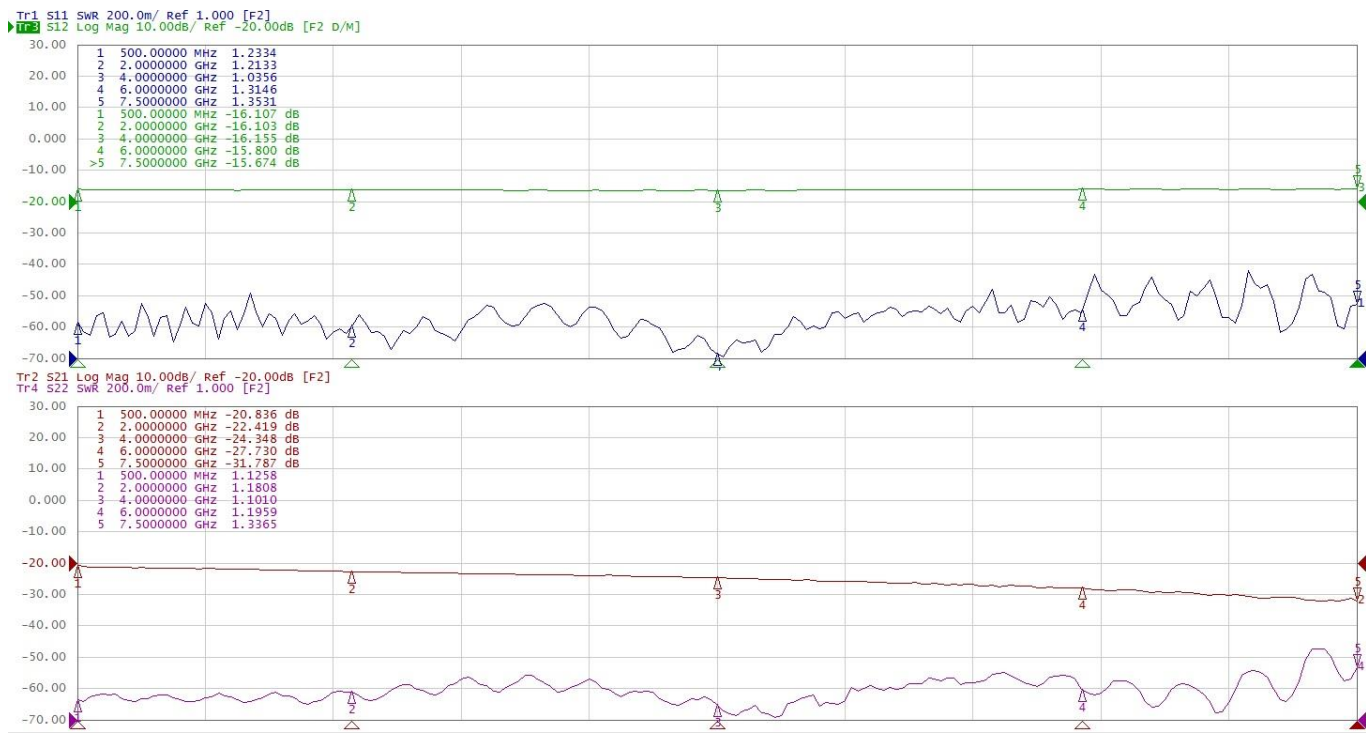
0.5dB



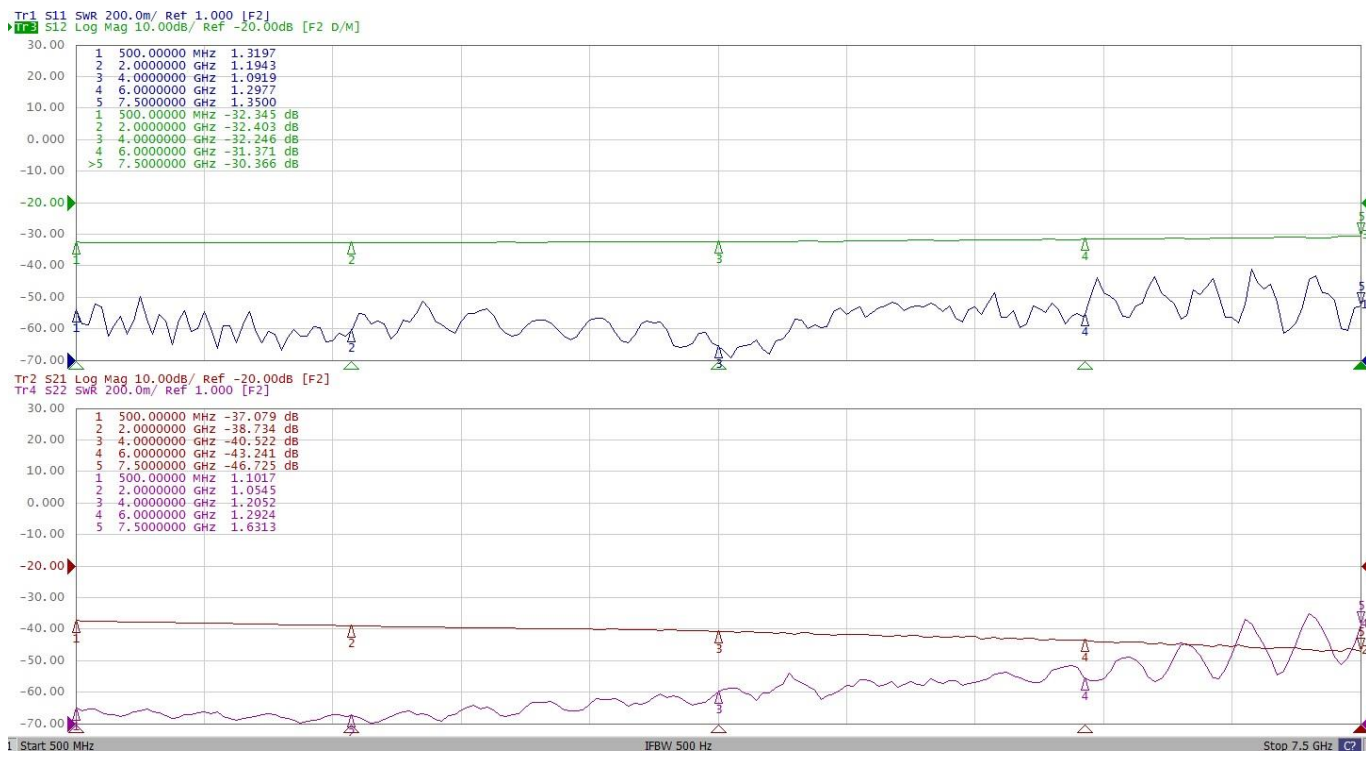
8dB



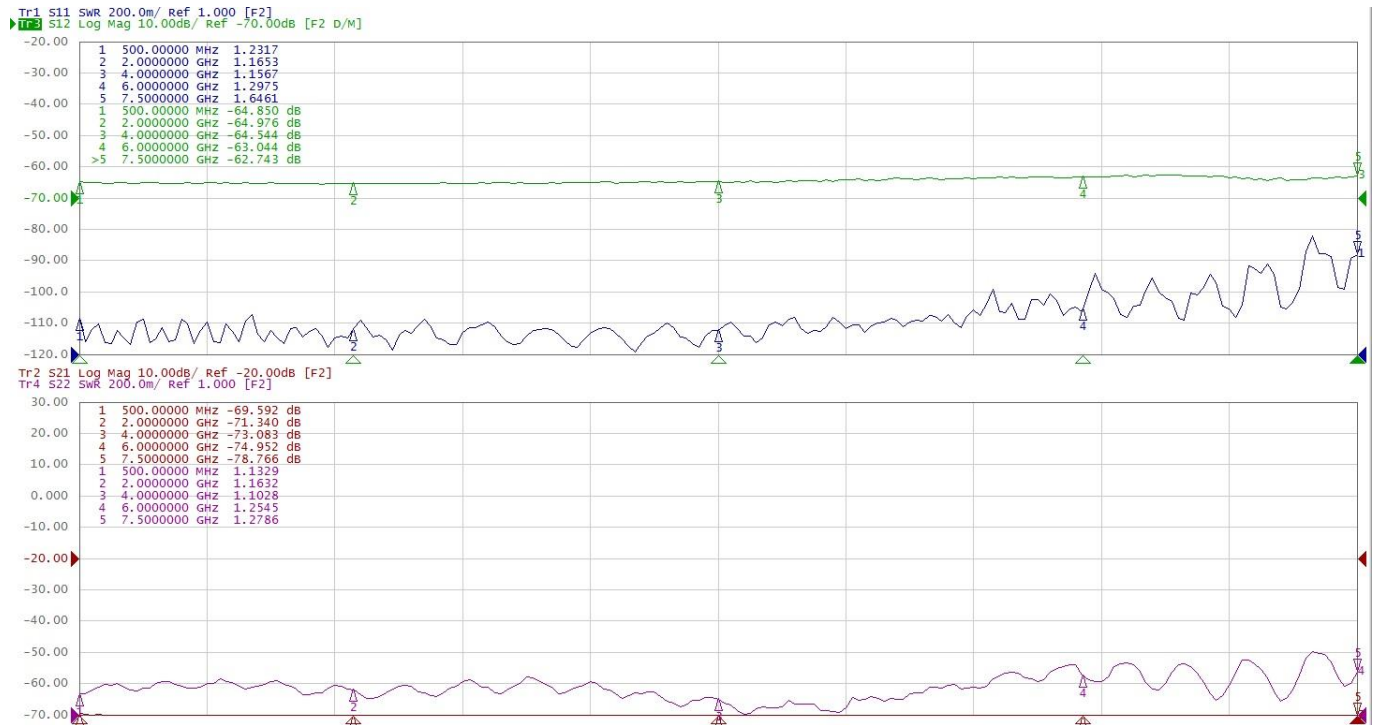
16 dB



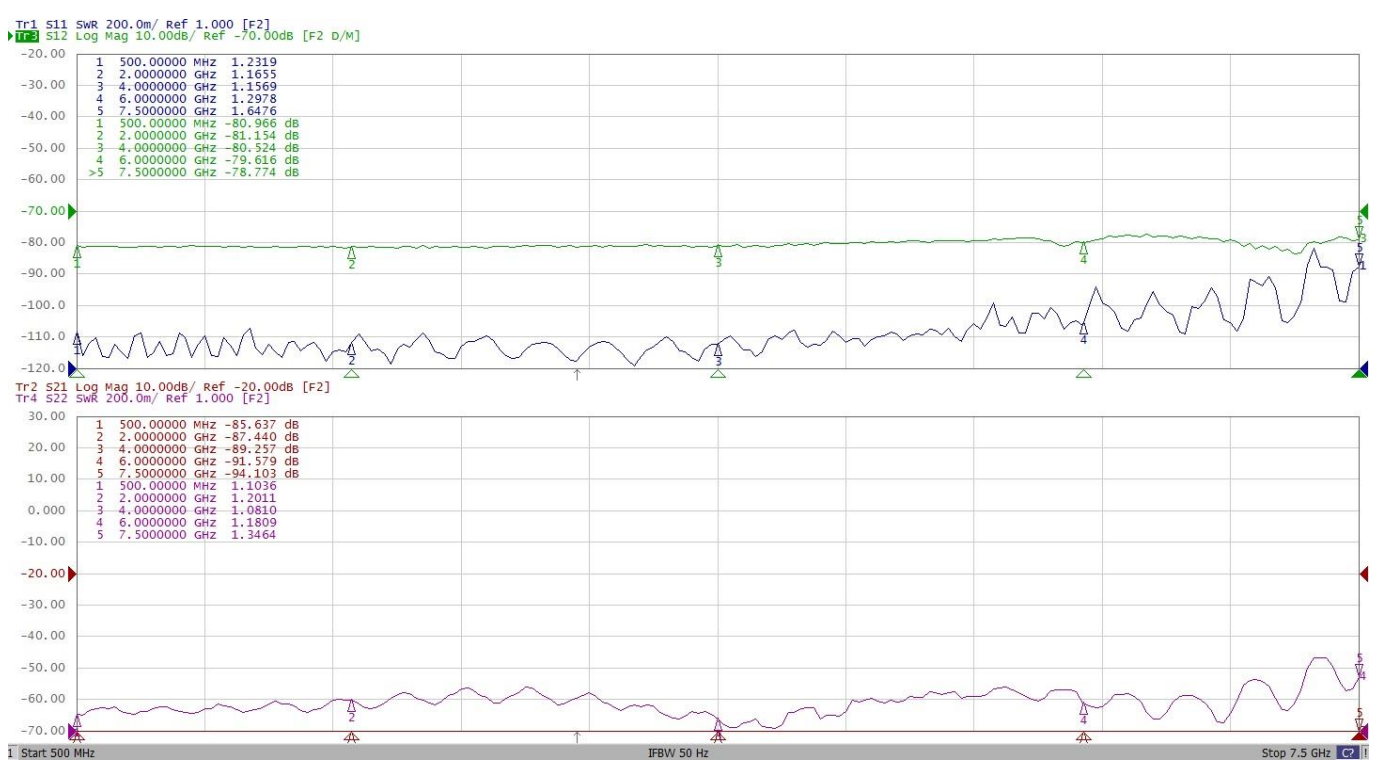
32dB



64dB

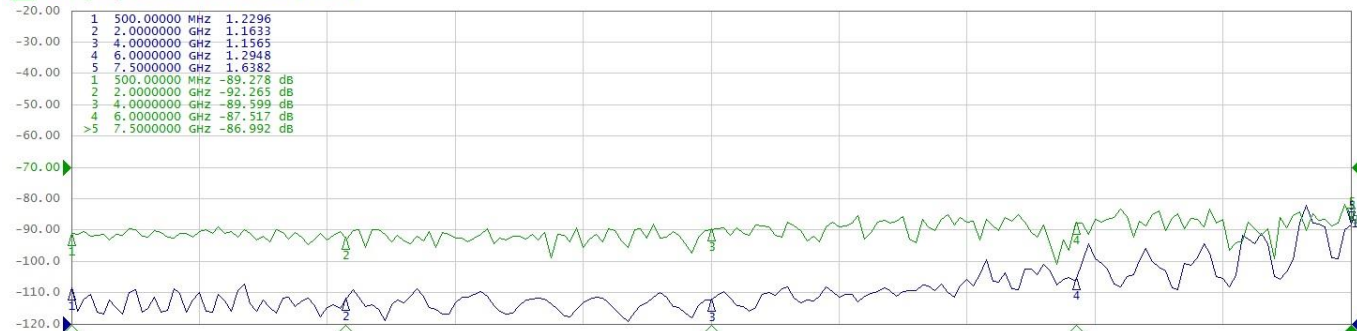


80dB

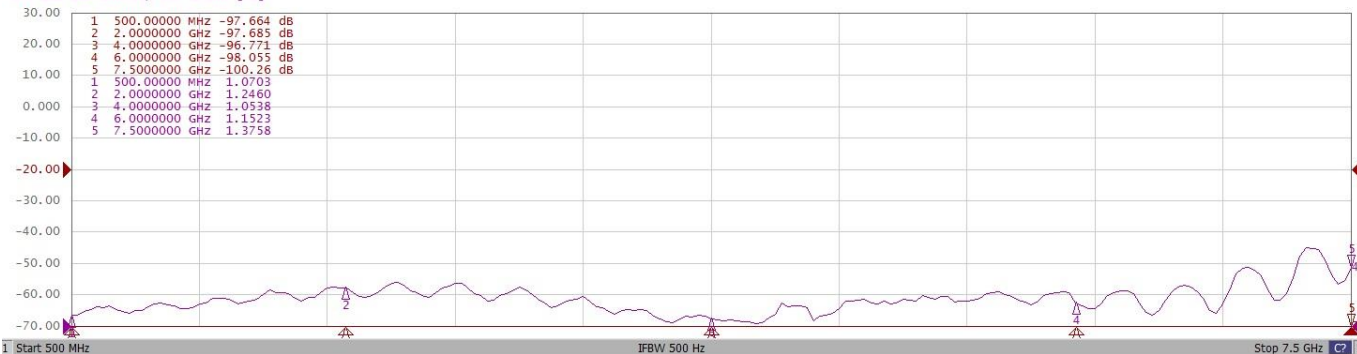


90dB

Tr1 S11 SWR 200.0m/ Ref 1.000 [F2]
Tr3 S12 Log Mag 10.00dB/ Ref -70.00dB [F2 D/M]



Tr2 S21 Log Mag 10.00dB/ Ref -20.00dB [F2]
Tr4 S22 SWR 200.0m/ Ref 1.000 [F2]



Start: 500 MHz IFBW: 500 Hz Stop: 7.5 GHz