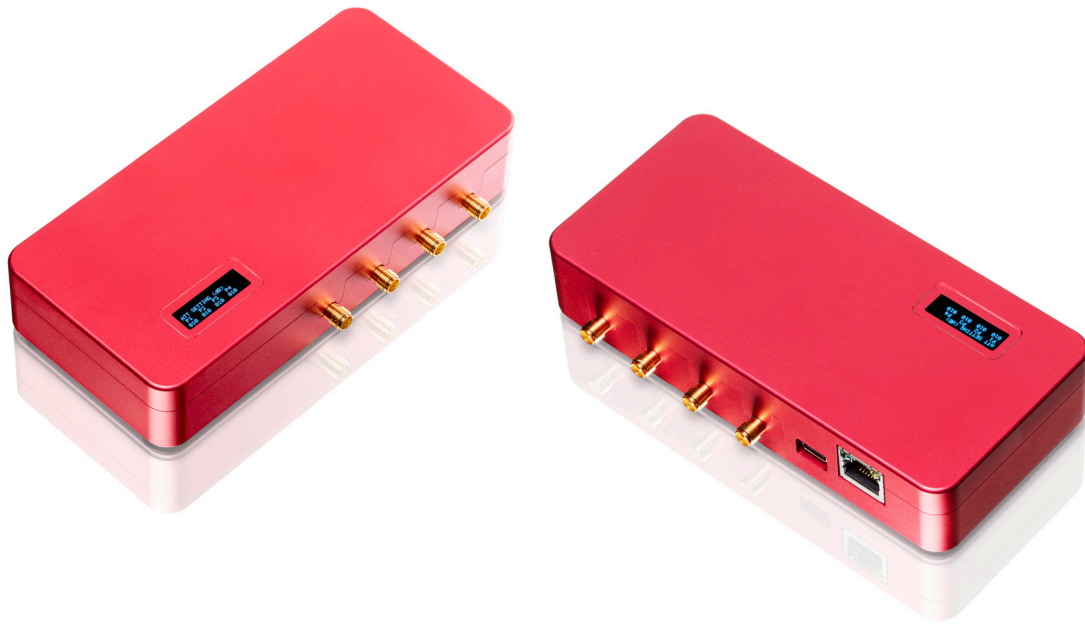


## 4-Port Programmable Attenuator

High performance, wide frequency and attenuation range.

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The MWave four-port attenuator is ideally suited to testing multi path communications channels (eg G.hn) under a wide range of attenuation levels, allowing different cable loss scenarios to be emulated.

With a wide frequency range (1MHz-6GHz) and an attenuation setpoint range of 10-120dB, the unit can be controlled via USB or ethernet and each channel can be individually programmed; alternatively, a group command can be used to set all 4 channels to the same setpoint simultaneously.

The device has an OLED display which indicates the setpoint of all 4 channels individually.

Each channel has high quality 50 ohm SMA input and output connectors and is housed in a robust anodised aluminium chassis.

## Electrical Performance Characteristics

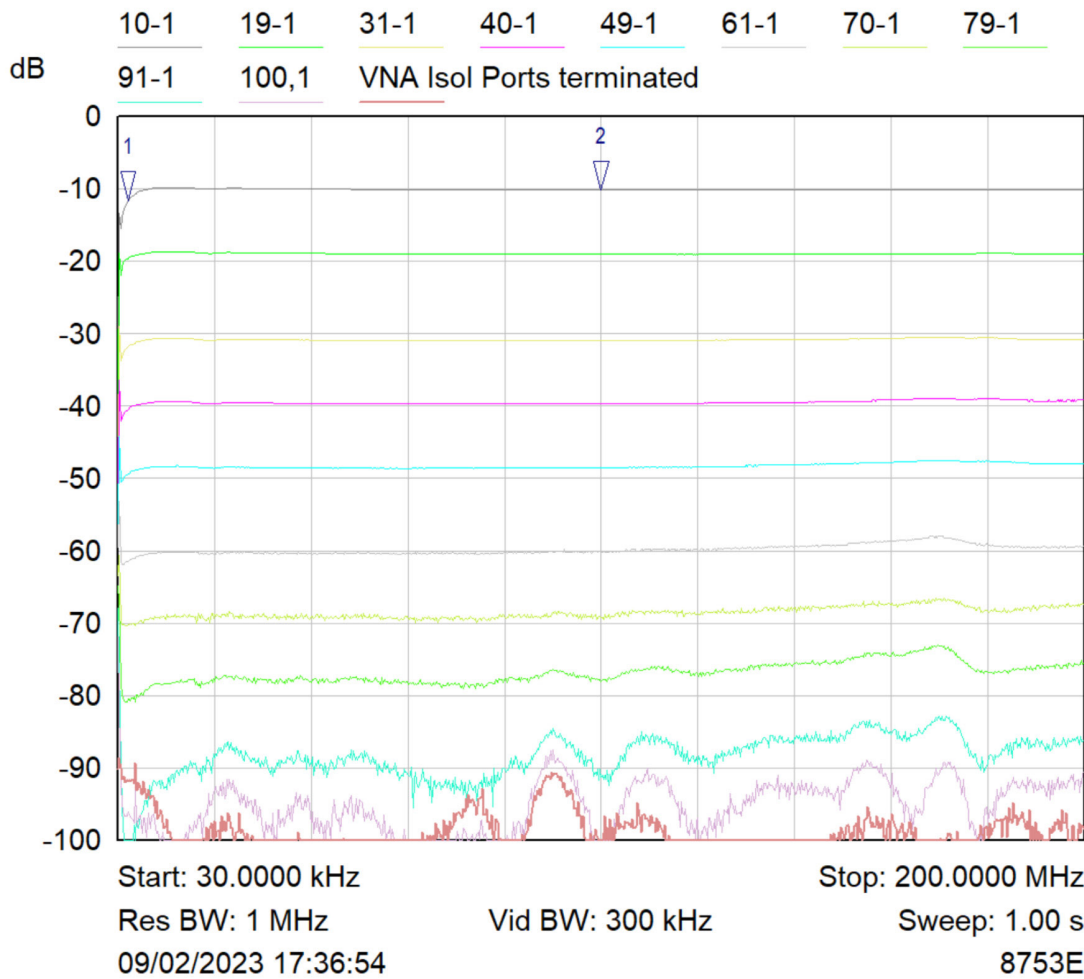
### Electrical Parameters

Parameter	Min	Typ	Max	Note
1.1 Frequency Range (MHz)	1		6000	
1.2 Attenuation Range (dB)	10		120	
1.3: Attenuation step size (dB)	3			
1.4 Attenuation Setting accuracy (dB)	+/-1.2 +/-4% of setpoint			Referenced to insertion loss
1.5: Input Power for 0.1dB compression (dBm)	25			
1.6 Input/Output Return Loss (dB)		15		50 Ohm
1.7 Current Draw from USB port (mA)			200	

### Environmental

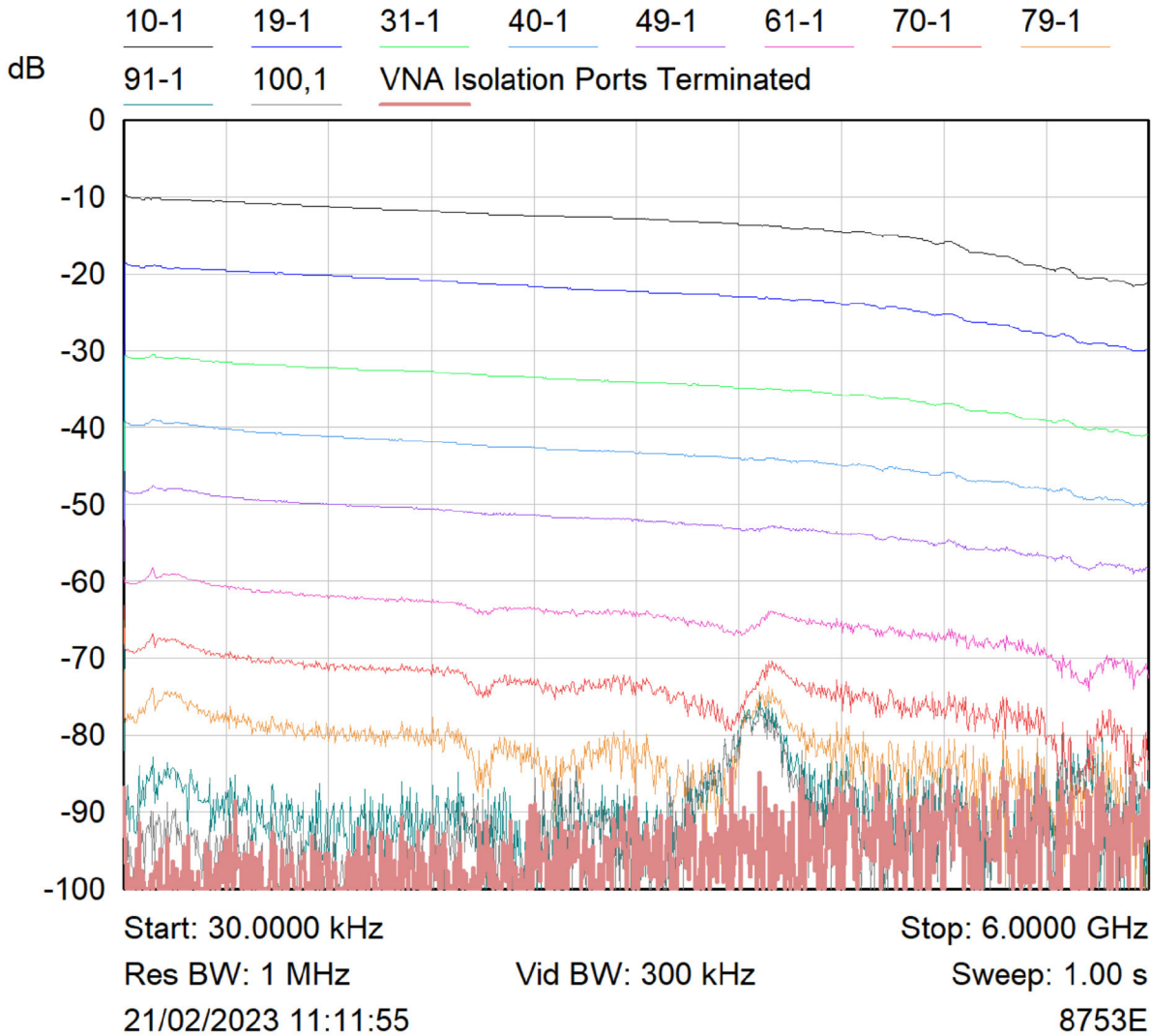
Parameter	Min	Typ	Max	Note
2.1 Operating Temp Range (deg C)	-20		65	
2.2 Storage Temperature Range (deg C)	-40		100	

## Attenuation vs Setpoint over G.hn frequency range



Mkr	Trace	X-Axis	Value	Notes
1 ▾	10-1	2.0297 MHz	-11.73 dB	
2 ▾	10-1	100.0150 MHz	-10.19 dB	

At higher attenuation >70dB, measurement is limited by VNA performance

**Attenuation vs Setpoint over full frequency range**


**For further information please contact:**

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