

## Ultra low noise wideband amplifier 6 GHz

- Low noise 4 dB noise figure
- Wideband 0.001 – 6 GHz
- Lowest added jitter
- Class A amplifier
- Excellent IP3 35 dBm
- Unconditionally stable
- 10 - 20 dB gain
- Input power + 13 dBm max.
- SMA input / output connectors
- Gold plated aluminum case



Applications : research - commercial - test & measurement

AW-6000 Specifications	
Frequency range	0.001 ... 6 GHz
Gain	10 - 20 dB
Noise figure	4 dB
Output power at 1 dB compression	+ 10 – 20 dBm
OIP3 point	+ 35 dBm
P sat	+ 18 dBm
Input RF power max. ( no damage )	+ 13 dBm
DC supply	8 - 16 V DC
Current consumption	160 mA
Operating temperature	- 20 .... + 50 deg. C
RF input / output connectors	SMA
Dimensions	66 x 48 x 12 mm including connectors

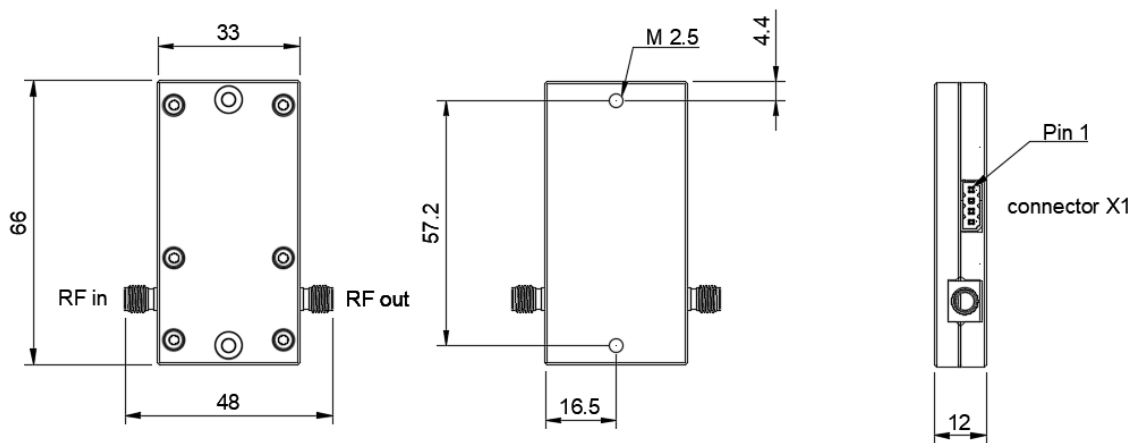
# AW - 6000

Pin	Connector X1	
1	VCC	8 – 16 V DC / 160 mA
2	VCC	
3	GND	
4	GND	
DC Connector type		PTSM 0,5/ 4-HH0-2,5-SMD Phoenix Contact
Matching connector Phoenix Contact Mouser order number		PTSM 0,5/ 4-P-2,5 WH Art. Nr. 1792249 651-1792249

## Options / order information

AW - 6000

outline drawing  
all dimensions in mm



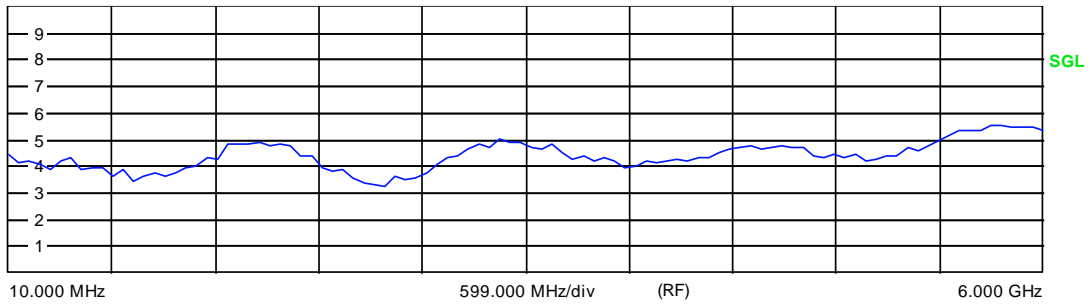
# AW - 6000

Gain and noise figure 10 MHz - 6 GHz

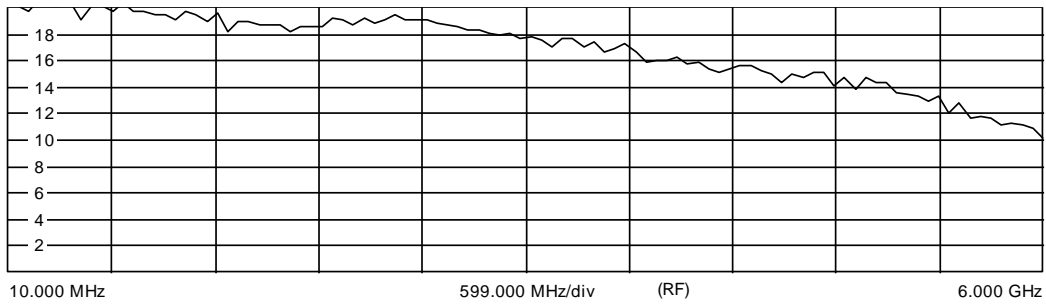
Direct		NOISE & GAIN		CALIBRATED	
RBW:	100 kHz	RF Atten.	0 dB	2nd Stage Corr.	On
Average:	20	Auto Ref Level	On	Image Rejection	...
Current Value					
RF:	6 GHz	ENR	20.86 dB	NF.	5.38 dB
LO:	...	Loss In	0 dB	Noise Temp.	709.83 K
IF:	...	Loss Out	0 dB	Gain	10.19 dB

## Noise Figure

Ref -54.9 dBm      SWT 100 ms



## Gain



Measurement Complete

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