

Ultra low noise wideband amplifier 20 GHz

- Low noise 7 dB noise figure
- Wideband 4 – 20 GHz
- Lowest added jitter
- Class A amplifier
- Excellent IP3 30 dBm
- Unconditionally stable
- 19 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	4 ... 20 GHz
Gain	19 dB
Noise figure	7 dB
Output power at 1 dB compression	+ 19 dBm
OIP3 point	+ 35 dBm
P sat	+ 20 dBm
Input RF power max. (no damage)	+ 10 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

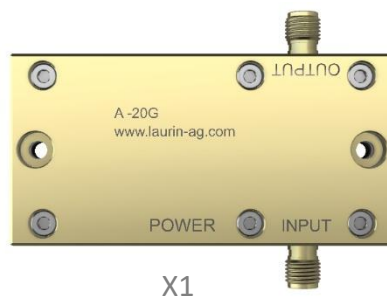
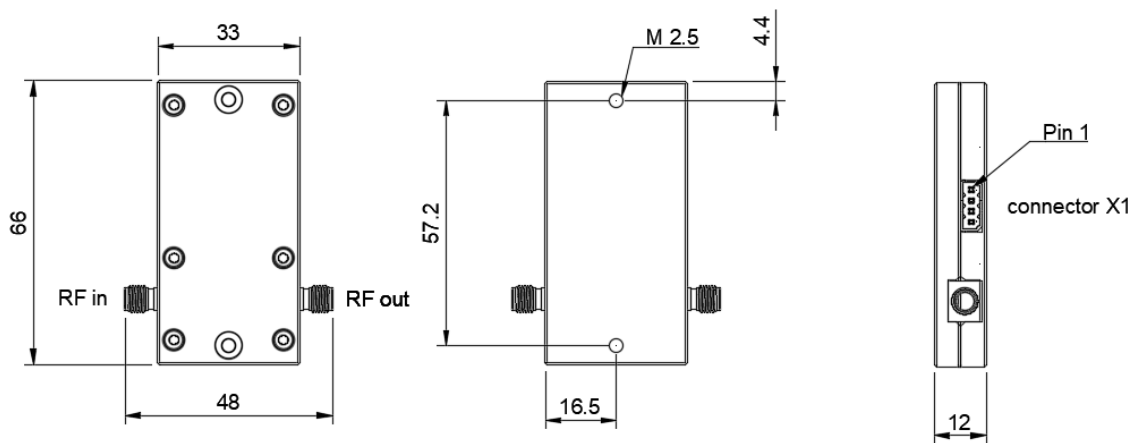
AW – 20 G

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 – 20G

outline drawing
all dimensions in mm



AW – 20G

Gain and noise figure 4 GHz - 20 GHz

Direct		NOISE & GAIN			CALIBRATED
RBW:	1 MHz	RF Atten.	0 dB	2nd Stage Corr.	On
Average:	15	Auto Ref Level	On	Image Rejection	...
Current Value					
RF:	20 GHz	ENR	22.86 dB	NF.	8.75 dB
LO:	...	Loss In	0 dB	Noise Temp.	1887.01 K
IF:	...	Loss Out	0 dB	Gain	15.36 dB

Noise Figure

Ref -45.3 dBm SWT 100 ms

