

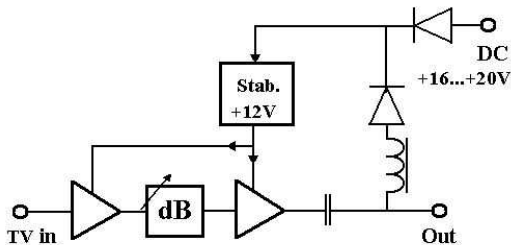
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Low noise amplifier

Wideband antenna gain block AD50-1.0/AMT is designed especially for amplification of weak TV-signals. AD50-1.0/AMT provides for excellent receiving of PAL and DVB-T signals.

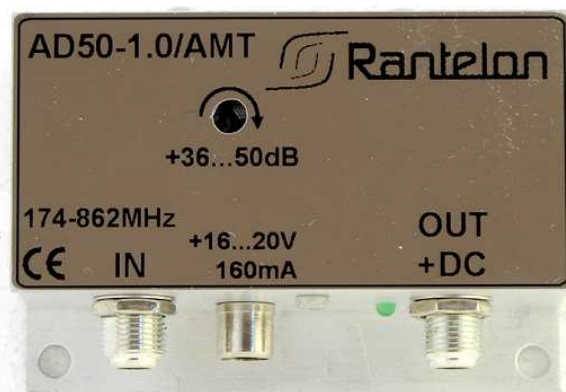
Key features:

- Maximum noise figure 1.0dB
- High gain 50dB
- Wideband VHF3+UHF
- Adjustable gain
- LED-indicator
- Compact
- Remote powering option



Application areas:

- Digital tuner systems
- Private house antenna systems
- CATV/MATV

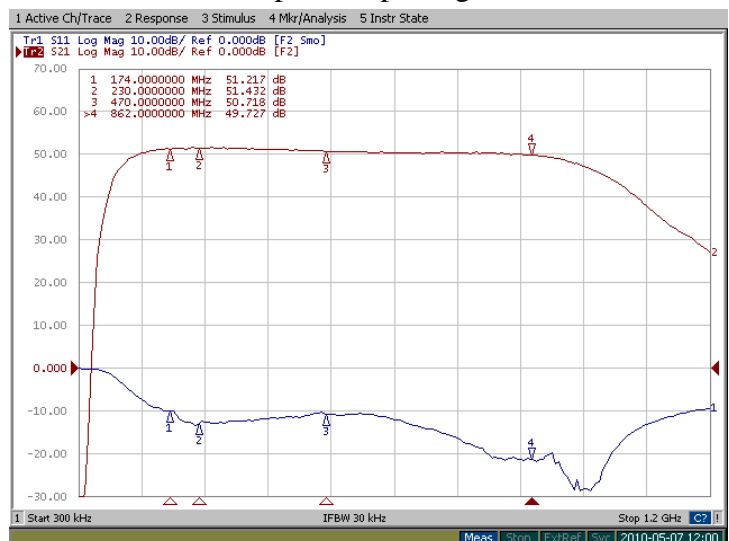


General description:

Amplifier AD50-1.0/AMT is intended for reliable receiving of PAL and DVB-T channels in regions where signal strength is quite small. Excellent low noise figure 1dB guarantees for the low level of its own contributed noise. Adjustable gain option provides for the possibility to choose gain from 36dB up to 50dB. LED-indicator shows presence of supply voltage. Using remote powering option the amplifier can be activated through output connector. In this case some type of a current injector must be used (e.g. Rantelon BT-1). Power supply is included into final product package.

Technical specifications:

Parameter	Specification
Frequency	174-862MHz
Maximum gain	50dB
Flatness	±1.5dB
Gain adjust range	14dB
Noise figure (gain 50dB)	1.0dB
Noise figure (gain 36dB)	2.0dB
Output level DIN45004B	112dB μ V
Power consumption	+16..20V/160mA
Impedance	75 Ω
Connector type	F-female



Example: matching (S11) and transfer function (S21)