

Mechanics & Electronics Inc.

Tropo Preamplifiers

ALN-70 70cm tropo Preamplifier



ALN-70 Preamp. inside photo.

Introduction

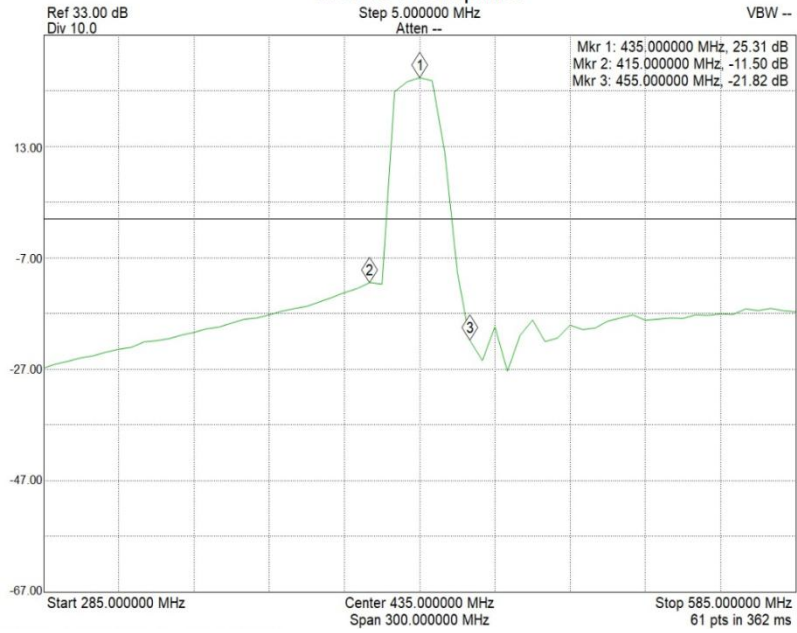
The ALN-70 70cm Preamplifier a high dynamics, selective and low-noise preamplifier for 430-440MHz, built by ASB ALN450 amplifier module.

We offer it for tropo and terrestrial operation. The built in SAW filter gives clean signal and selectivity.

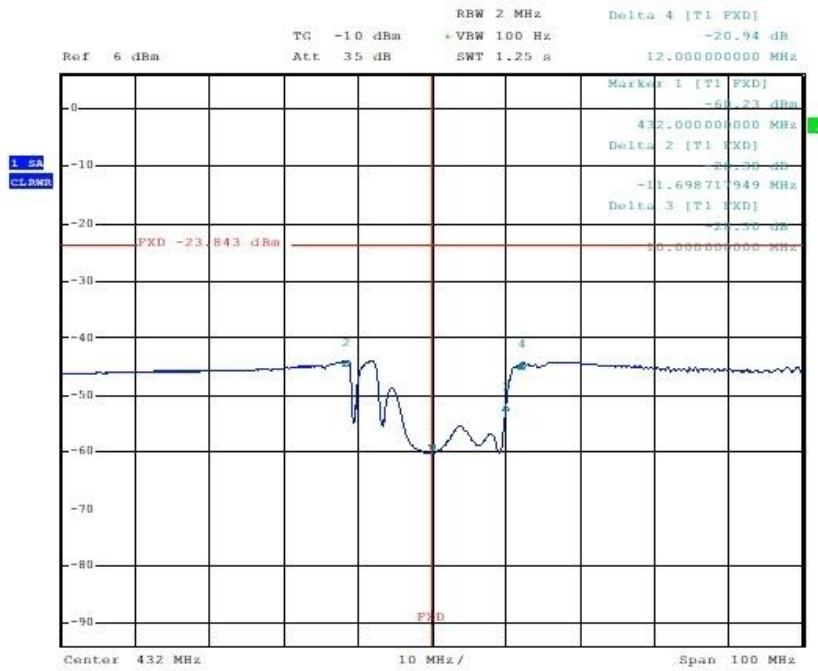
The preamplifier built in a stable ALU box furnished with SMA female connectors. The small dimension is optimal to use it near of your antennas in separate box.

Technical data	ALN-70
Frequency range:	430-440MHz
Noise figure @ 22°C	Typ < 0.5dB
Noise figure @ -18C	Typ < 0.3dB
Gain S21, typ.:	> +25dB
Input return loss (S22)	> +18.5dB
Output return loss(S11)	> +20 dB
OIP3:	> +25 dBm
IIP3:	typ. + 0dBm
Device:	ASB ALN450
Max. Input level:	22dBm
Operating voltage:	+10...+15V
Power consumption:	170mA
Dimensions:	85x50x20mm (w.conn)
Weight:	75g
RF connectors:	2x SMA female

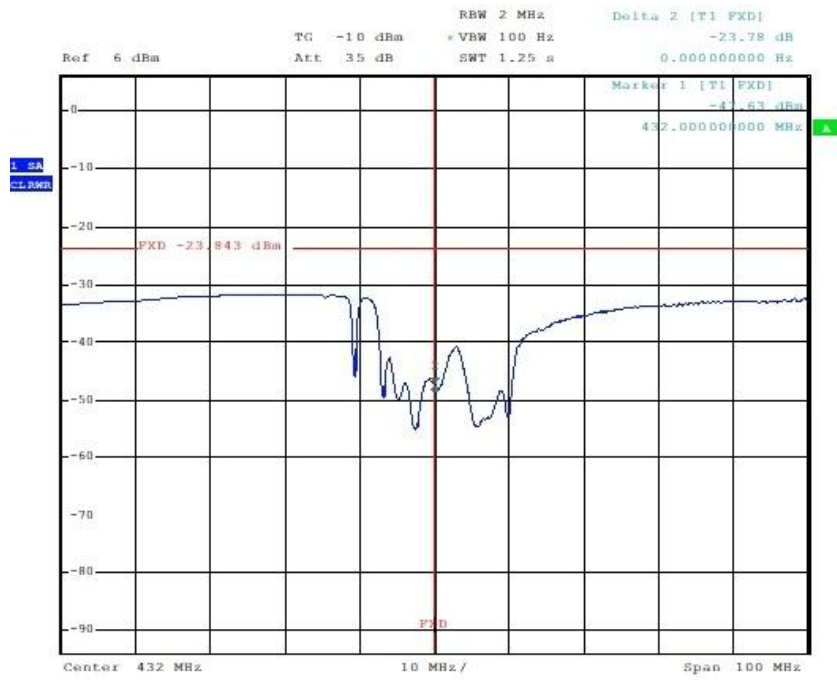
ALN-70 Preamplifier



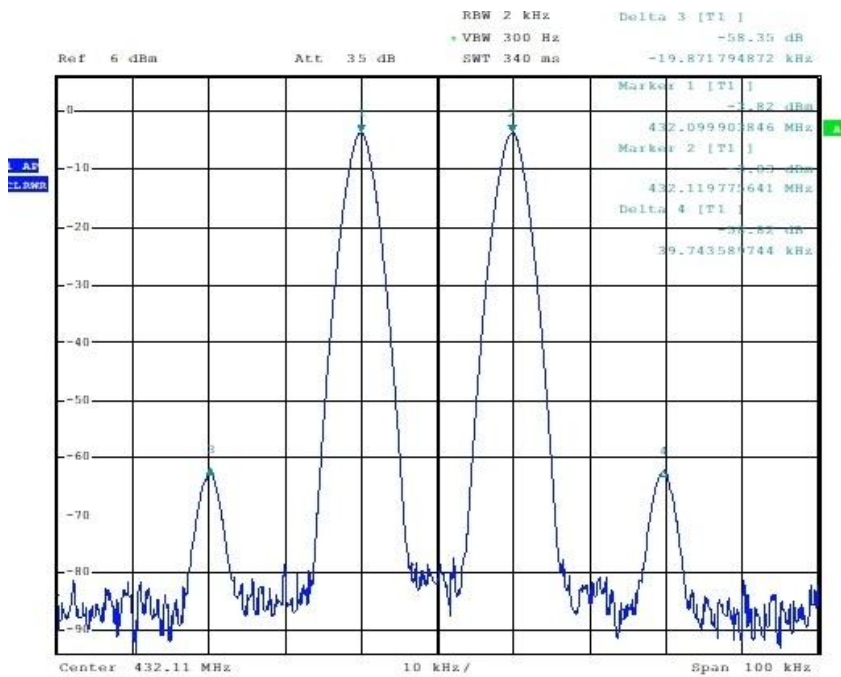
300MHz BW



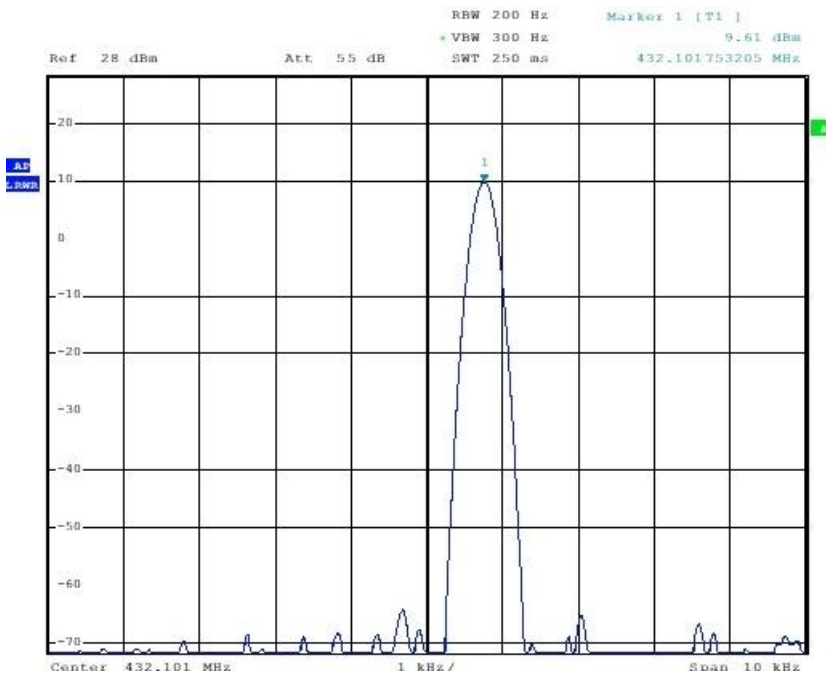
Input Return Loss



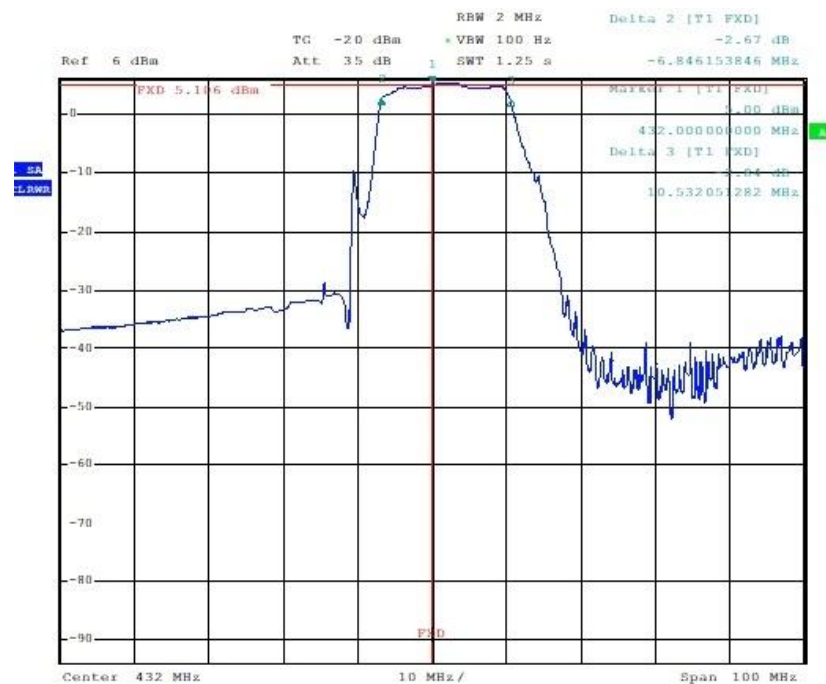
Output Return Loss



OIP3 +26dBm



1dB Compression Point



BW /3dB

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