

Datasheet

FLARM BOOSTER

The FLARM BOOSTER works as a receive preamplifier but bypasses in transmit mode automatically.

Operation mode is displayed by a red and green LED.

Power can be supplied via attached red/black wire as well as over the RX side coax cable.

A built in filter avoids interferences with out-of-band signals

Technical Data

Connectors

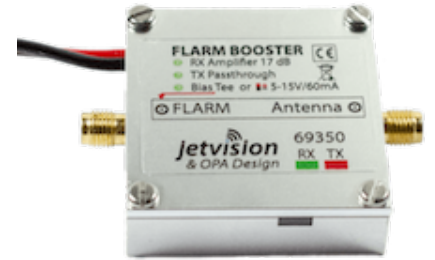
Description	Value
RF connector	SMA female
DC Input ^{(1) (2)}	FLARM connector Minus: Shield Plus: Center
DC Input ⁽¹⁾	DC cable Minus: black Plus: red

⁽¹⁾ DC inputs can be used alternatively.

⁽²⁾ Recommended accessories Jetvision Bias Tee No. 69400

RF Parameters (typical)

Description	Value
Frequency Range	866MHz – 870MHz
RX Gain	17dB
Noise Figure	0.9dB
Transmit power	15dBm / 30mW
TX Path through loss	< 0.8dB
Input and output impedance	50Ω



Active Antenna Series

FLARM BOOSTER

Product Number: 69350

Usage:

Amplification of FLARM received signal with bypass of transmit signal.

RF Parameters (maximum)

Description	Value
Transmit power	15dBm / 30mW
RX to TX switching time	0.2μs

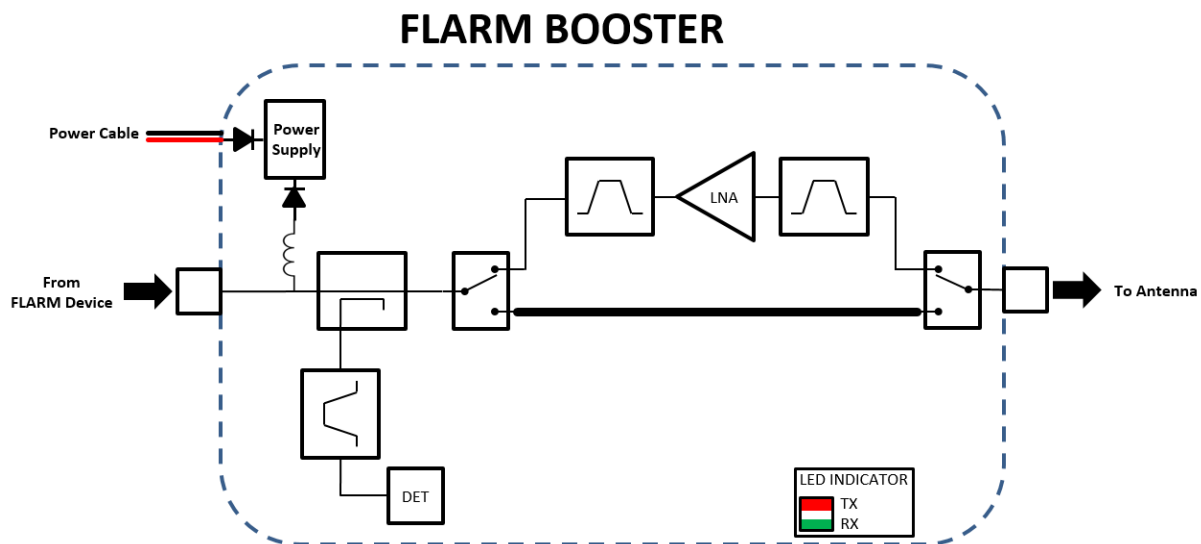
DC Parameters (typical)


Description	Value
DC supply voltage	5 – 15V
DC supply current	60mA
Operating temperature	0°C – 60°C

Absolute Maximum Ratings @25°C

Description	Value
Transmit power	20dBm / 100mW
DC supply voltage	15V
Operating Temperature	0°C – +60°C
Storage Temperature	-20°C - +65°C

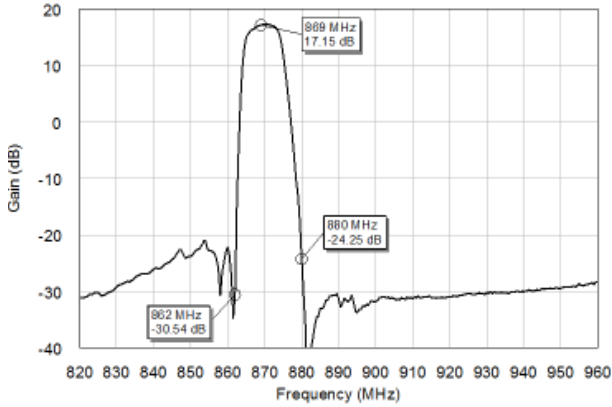
Block Diagram



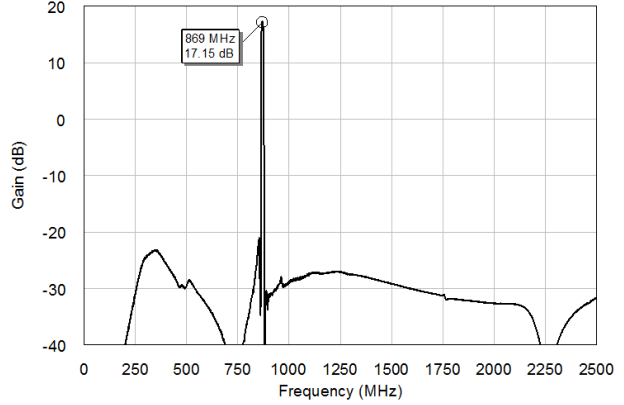
	Notes:	
	Title: Active Antennas Series FLARM BOOSTER	Article No: 69350 Author: Günter Köllner

Receive gain over Frequency

Narrow range:

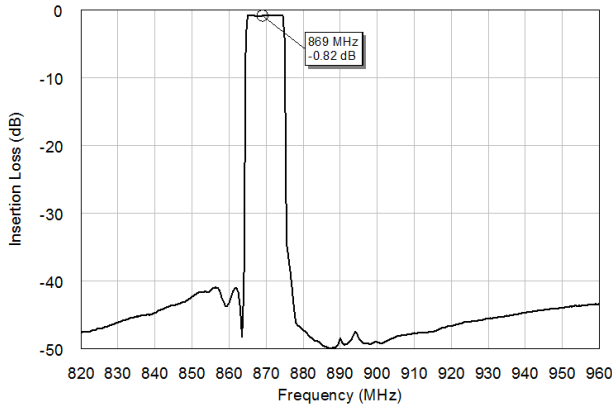


Wide range:

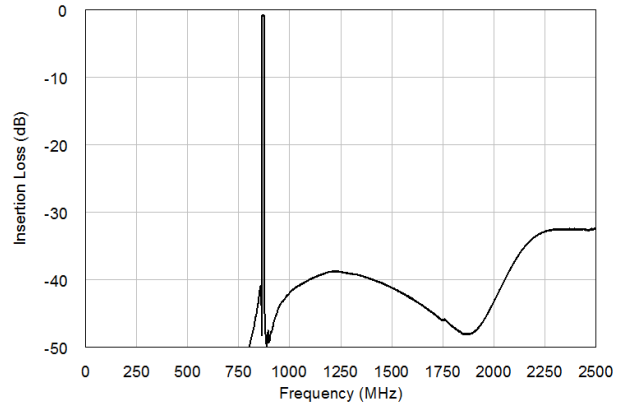



TX loss over Frequency

Narrow range:



Wide range:



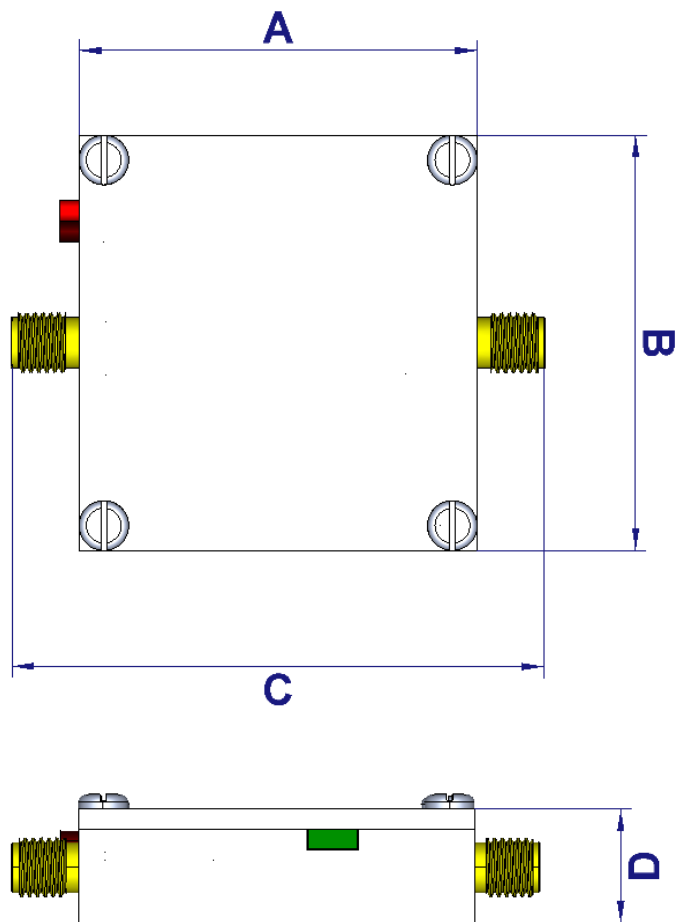
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Mechanical Specification

Description	Value
Overall Dimensions	54mm x 42mm x 12mm
Weight	tbd

Outline

	A	B	C	D
in mm	40	42	54	12



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