

Datasheet

FLARM BOOSTER PLUS

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

It is combined with a perfectly matched omni directional diapason antenna element.

Operation mode is displayed by a red and green LED.

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

Two mounting holes are provided for easy fixing to any structure within an aircraft.

Technical Data

Connectors

Description	Value
RF connector	SMA female
DC Input ⁽¹⁾	SMA connector Minus: Shield Plus: Center

⁽¹⁾ jetvision Bias Tee No. 69400 included in the bundle

RF Parameters (typical)

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



Active Antenna Series

FLARM BOOSTER PLUS

Product Number: 69300

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

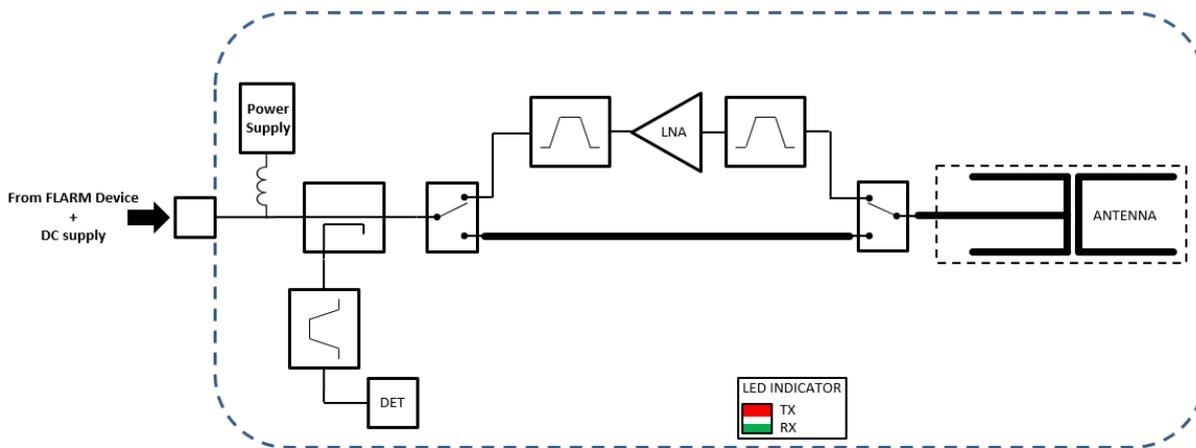
DC Parameters (typical)

Description	Value
DC supply voltage	5 – 15V
DC supply current	70mA
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

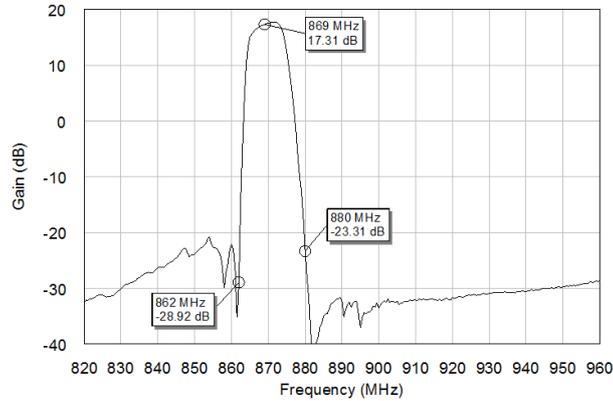
Block Diagram



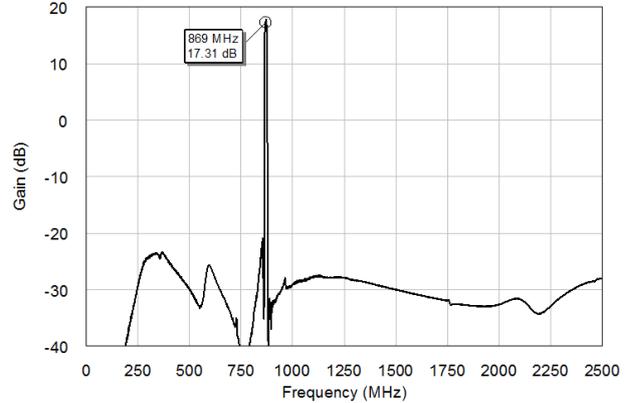
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Receive Gain Over Frequency

Narrow range:

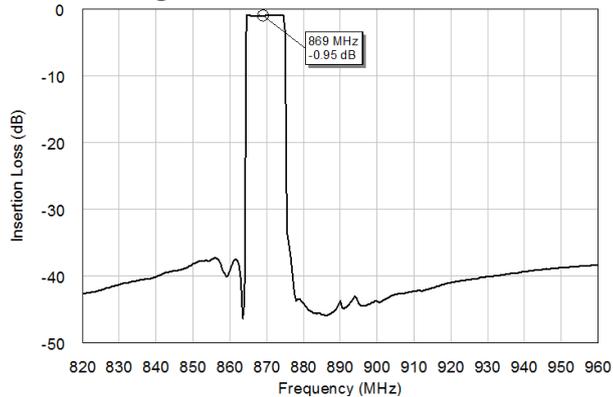


Wide range:

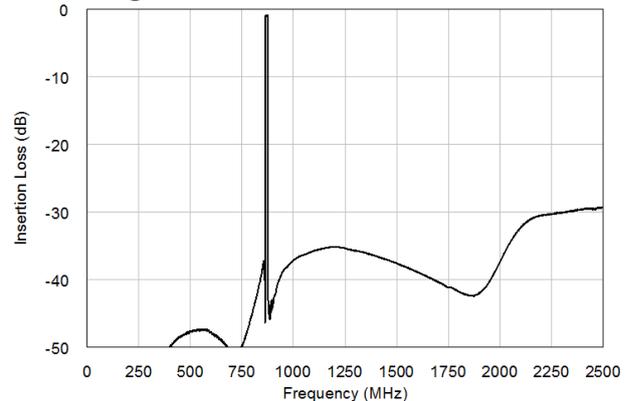


TX loss Over Frequency

Narrow range:



Wide range:



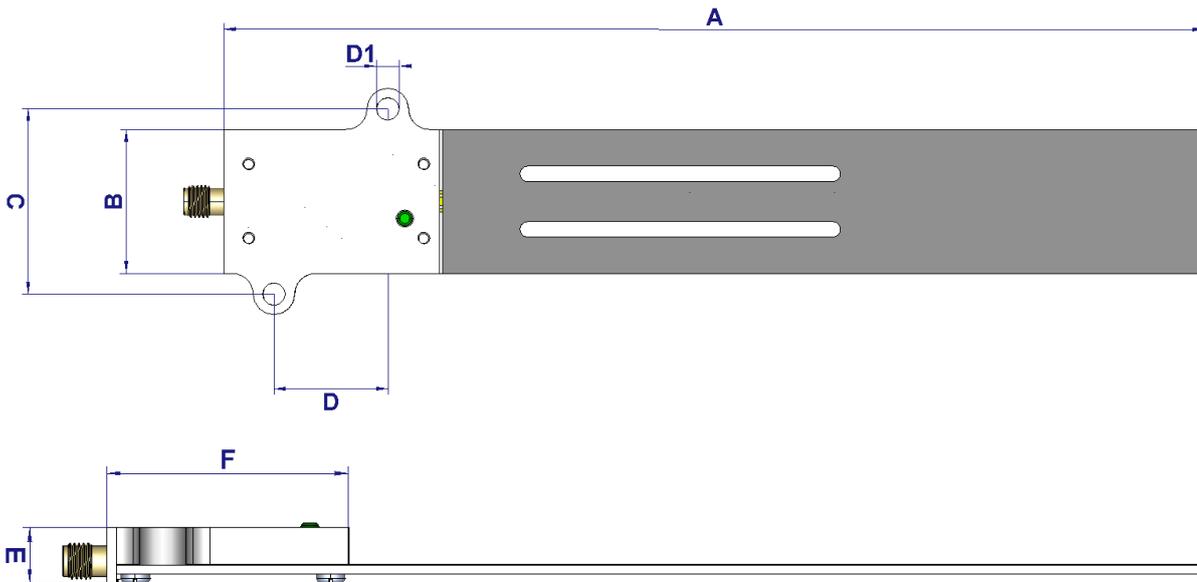
Mechanical Specification

Description	Value
Overall Dimension	190mm long x 29mm wide
Weight	30g

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Outline

	A	B	C	D	E	F	G
in mm	190	28	36	22	9.5	42	4.5



Mounting Instructions

Description	Value
Mounting Direction	vertical, Antenna element upwards
SMA torque	1Nm ⁽¹⁾

⁽¹⁾ If there is no torque spanner just tighten with fingers. Do not overtighten when using standard spanners or other tools.

We reserve the right to make technical changes, which serve to improve the product, without prior notification.

	Notes:		
	Title: Active Antennas Series FLARM BOOSTER PLUS	Article No: 69300	Version: 4.0
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