

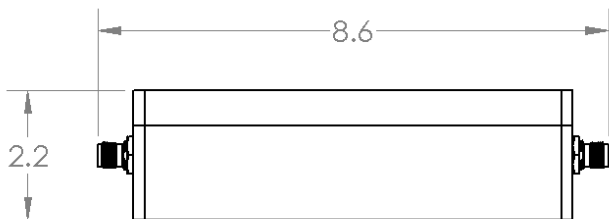


SmartSAT's FPA-103 is an ideal device to deploy with critical UHF SATCOM transceivers and receive-only terminals. This pre-amplifier allows separation of the receive antenna from the radio while maintaining outstanding system sensitivity. Built-in filters enable operation in close proximity to other communication systems. The FPA is a low noise, high gain amplifier that increases the sensitivity and performance of today's UHF SATCOM systems.

## FEATURES

- Lightweight
- Water Resistant
- Rugged
- One year warranty

Filtered Pre-Amplifier  
FPA-103



# FILTERED PRE-AMPLIFIER DATA SHEET

## HIGHLIGHTS

FPA-103 is the ideal device to deploy with critical UHF SATCOM transceivers and receive-only terminals.

Allows the user to separate the receive antenna from the radio while maintaining outstanding system sensitivity.

Includes built-in filters that allow the user to operate in close proximity to other communication systems.

Provides the user with low noise figure, high gain amplifier that increases the sensitivity and performance Of UHF SATCOM systems.

Provides the user with al lightweight, water resistant, ruggedized pre-amplifier that can be used in all standard deployments.

Can be used with SmartSAT's BIAS-TEE, SS-BT6XX.

## SYSTEM INTEROPERATBILTY

FPA-103 filters and amplifies the downlink signal from all UHF satellites, including:

FLTSATCOM	LEASAT
AFSATCOM	UFO

FPA-103 is an excellent test aid for all common UHF SATCOM systems, such as:

CIB	DAMA
Secure Voice	IBS

FPA-103 is an ideal device for providing low noise filtered amplification before all standard UHF radios and receivers including:

ENTR	JTT
Min-DAMA	CTT Varients
AIT	LST-5
MUST	WSC-3
PSC-5	MDR

## MECHANICAL SPECIFICATIONS

Weight	<2.5 lbs
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## ELECTRICAL SPECIFICATIONS

Input Voltage	18 – 32 VDC Center conductor of output cable
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Input Current	100 mA max.
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## ACCESSORIES

Cable to antenna	3 ft. TNC to BNC
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Dust caps	TNC
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## ENVIRONMENTAL SPECIFICATIONS

Storage Temps	-25°C to +75°C
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Operating Temps	-45°C to +55°C
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## PERFORMANCE CHARACTERISTICS

Frequency Range	243 to 270 MHz
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Noise Figure	2.5 dB Max.
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Gain	28 dB Min.
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Gain Flatness	±2 dB Max.
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1 dB Compression	-20 dBm in Min.
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Rejection	60 dBc below 175 MHz 40 dBc from 293 – 317 MHz 60 dBc above 317 MHz
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