

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.

FILTERED PRE-AMPLIFIER FPA-103



Features:

- Lightweight
- Water resistant packaging
- Ruggedized construction

SPECIFICATIONS:

Mechanical Specifications:

Weight: <2.5 lbs

Electrical Specifications:

Input Voltage: 18-32 VDC

Input Current: Center conductor of output cable
100mA max.

Environmental Specifications:

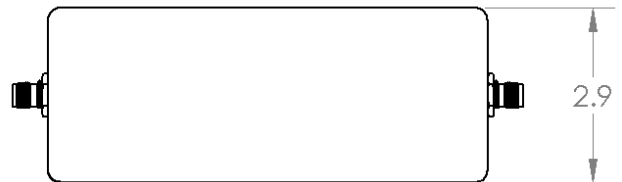
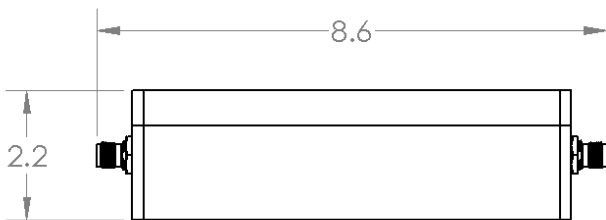
Storage Temps: -25°C to +75°

Operating Temps: -45°C to +55°

Accessories:

Cable to antenna: 3 ft. TNC to BNC

Dust caps: TNC



Dimensions in inches

Performance Characteristics

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

System Interoperability:

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

FLTSATCOM	LESAT
AFASATSOM	UFO

FPA-103 is an excellent pre-amplifier 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
Mini-DAMA	CTT Variants
AIT	LST-5
MUST	WSC-3
PSC-5	MDR

Applications

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 a low noise figure, high gain amplifier that increases the sensitivity and performance of UHF SATCOM systems.

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

Can be used with SmartSAT's BIAS-TEE, SS-BT600.