

**PRODUCT SUMMARY**

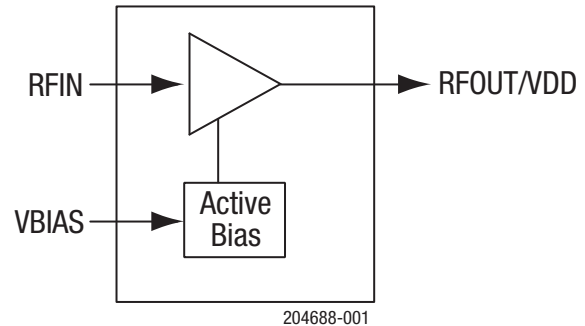
# SKYH22001: Hermetically Sealed Broadband Low-Noise Amplifier for High-Reliability Space and Military Applications

**Applications**

- L and S bands satellite communications
- Aerospace and defense applications
- Radar and weather satellites
- High-reliability military communications
- Test and measurement instruments
- Extreme industrial and medical equipment

**Features**

- High-reliability Space and Military grade screening
- Operating frequency: 0.3 to 3.8 GHz
- Low noise figure: 1.2 dB typical
- High IP3 performance over voltage
- AC coupled
- Input and output matched to 50 Ω
- Minimum external component counts
- Temperature and process-stable adjustable active bias from -55 to +125 °C
- Packaging: ceramic hermetic QFP 14-pin 7 x 7 x 0.635 mm



**Figure 1. SKYH22001 Block Diagram**

**Description**

The SKYH22001 is an ultra-broadband hermetically sealed low-noise amplifier with superior gain flatness and exceptional linearity.

The internal active bias circuitry provides stable performance over temperature and process variation. The device offers the ability to externally adjust supply current.

A functional block diagram is provided in Figure 1.

## Ordering Information

Part Number	Product Description	Evaluation Board Part Number
SKYH22001	Hermetically Sealed Broadband Low-Noise Amplifier	SKYH22001-EK1

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