

# **PRODUCT SUMMARY**

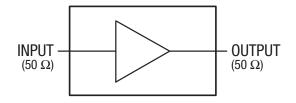
# **SKYH22002: Hermetically Sealed Cascadable Amplifier for High-Reliability Space and Military Applications**

# **Applications**

- L, S, and C 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: 0.1 to 6 GHz
- Internally matched, input and output
- Small signal gain: 20 dB typical @ 2 GHz
- High OIP3: +34 dBm typical
- OP1dB: +20 dBm typical @ 2 GHz
- Input and output impedance: 50  $\Omega$  nominal
- Single positive DC supply voltage
- Packaging: ceramic hermetic QFP 14-pin 7 x 7 x 0.635 mm



#### Figure 1. SKYH22002 Functional Block Diagram

### Description

Skyworks SKYH22002 is a general-purpose broadband amplifier fabricated from the Skyworks InGaP HBT process.

The device's 50  $\Omega$  input and output impedance allow it to be easily cascaded without external impedance matching networks. The typical -3 dB bandwidth of the SKYH22002 is 0.1 to 6 GHz.

A functional block diagram is provided in Figure 1.

#### **Ordering Information**

Part Number	Product Description	Evaluation Board Part Number
SKYH22002	Hermetically Sealed Cascadable Amplifier	SKYH22002-EK1

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