

Up/Down Conv Mixer 12GHz Automotive 8-Pin MSOP EP Cut Tape



Images are for reference only

[Inquiry](#)

Manufacturer: [Analog Devices, Inc](#)

Package/Case: MSOP-8

Product Type: RF Integrated Circuits

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The HMC220B is an ultraminiature, double-balanced mixer in an 8-lead mini small outline package with exposed pad (MINI_SO_EP). This fundamental, monolithic microwave integrated circuit (MMIC) mixer is constructed of gallium arsenide (GaAs) Schottky diodes and planar transformer baluns on the chip. The device can be used as an upconverter, downconverter, biphas demodulator, or phase comparator from 5 GHz to 12 GHz. The HMC220B provides excellent local oscillator (LO) to radio frequency (RF) and LO to intermediate frequency (IF) isolation due to optimized balun structures and operates as low as 7 dBm. The RoHS compliant HMC220B eliminates the need for wire bonding and is compatible with high volume surface-mount manufacturing techniques.

Key Features

Low conversion loss: 9 dB

No dc bias and no external matching required

Ideal for upconversion and downconversion

Wideband IF range: DC to 4 GHz

Ultrasmall package: 8-Lead MINI_SO_EP

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Application

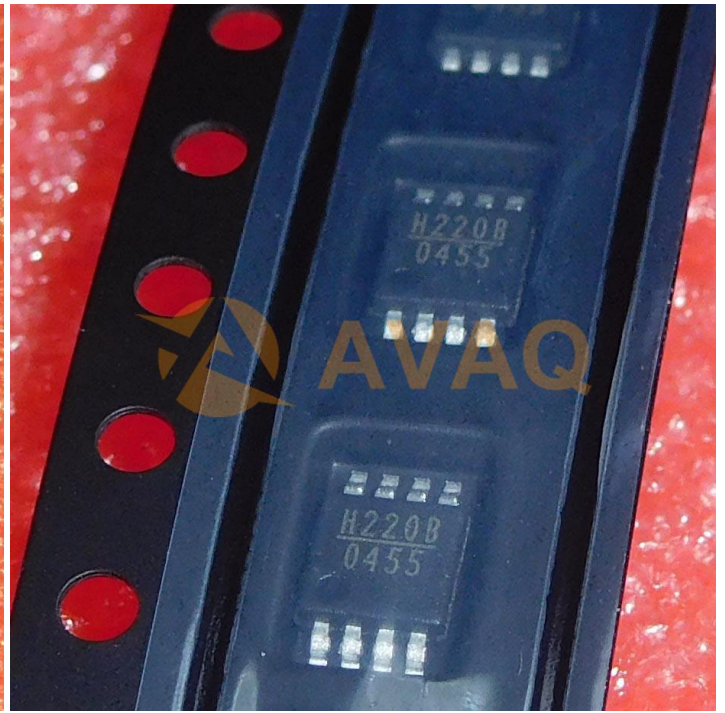
Very small aperture terminals (VSAT) and mobile satellite communication terminals

Microwave and military radio

Wireless backhaul equipment

Automotive, dedicated short range communications (DSRC) and intelligent vehicle highway systems (IVHS)

Military radar, electronic warfare (EW), and electronic counter measure (ECM) subsystems



Recommended For You

HMC624ALP4E

Analog Devices, Inc

QFN24

HMC952ALP5GE

Analog Devices, Inc

QFN

HMC361S8GE

Analog Devices, Inc

SOP-8

HMC253AQS24E

Analog Devices, Inc

QFN

HMC346MS8G

Analog Devices, Inc

MSOP8

HMC1119LP4ME

Analog Devices, Inc

QFN

HMC659LC5

Analog Devices, Inc

QFN

HMC909LP4E

Analog Devices, Inc

QFN

HMC564LC4

Analog Devices, Inc

QFN

HMC1021LP4E

Analog Devices, Inc

QFN

HMC241AQS16E

Analog Devices, Inc

SSOP16

HMC424LP3E

Analog Devices, Inc

QFN

HMC662LP3E

Analog Devices, Inc

QFN

HMC8038LP4CE

Analog Devices, Inc

QFN16

HMC363S8G

Analog Devices, Inc

SOP8