HMC8038LP4CE

RF Switch SPDT 100MHz to 6GHz 40dB Automotive 16-Pin LFCSP EP Cut Tape

Manufacturer:	Analog Devices, Inc
Package/Case:	QFN16
Product Type:	Switches
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active

Images are for reference only

Inquiry

General Description

The HMC8038 is a high isolation, nonreflective, 0.1 GHz to 6.0 GHz, silicon, single-pole, double-throw (SPDT) switch in a leadless, surface-mount package. The switch is ideal for cellular infrastructure applications, yielding up to 62 dB of isolation up to 4.0 GHz, a low 0.8 dB of insertion loss up to 4.0 GHz, and 60 dBm of input third-order intercept. Power handling is excellent up to 6.0 GHz, and it offers an input power for an 0.1 dB compression point (P0.1dB) of 35 dBm>

The HMC8038 has ESD protection on all device pins, including the RF interface, and can stand 4 kV HMB and 1.25 kV CDM. The HMC8038 offers very fast switching and RF settling times of 150 ns and 170 ns, respectively. The device comes in a RoHS-compliant, compact 4 mm × 4 mm LFCSP package.

Key Features

Nonreflective, 50 Ω design

High isolation: 60 dB typical

Low insertion loss: 0.8 dB typical

High power handling34 dBm through path29 dBm terminated path

High linearity0.1 dB compression (P0.1dB): 35 dBm typical Input third-order intercept (IP3): 60 dBm typical

ESD ratings4 kV human body model (HBM), Class 3A1.25 kV charged device model (CDM)

Single positive supply3.3 V to 5 V1.8 V-compatible control

see data sheet for additional features

Application

Cellular/4G infrastructure

Wireless infrastructure

Automotive telematics

Mobile radios

Test equipment

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

HMC363S8G

Analog Devices, Inc

SOP8

HMC394LP4E

Analog Devices, Inc

QFN