HMC1095

0.5 dB LSB GaAs MMIC 6-bit 75 Ohms Digital Attenuator, DC - 3 GHz

Recommended for New Designs

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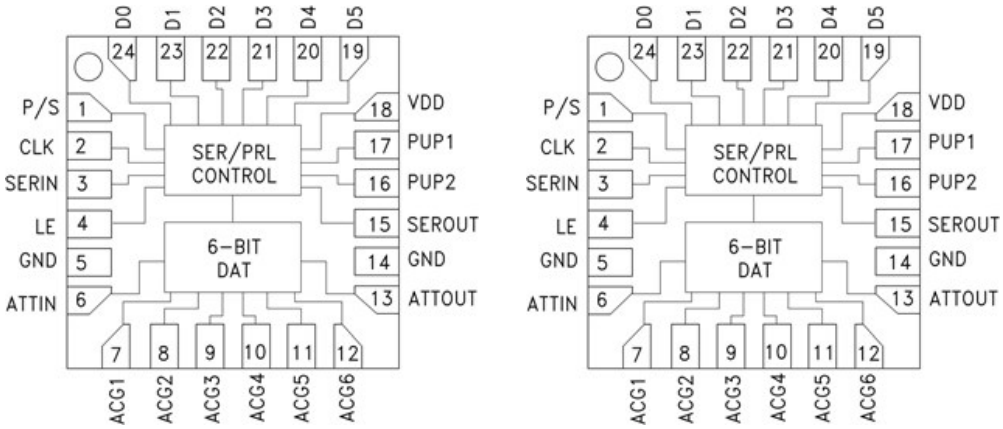

D0 D1 D2 D3 D4 D5
24 23 22 21 20 19
P/S 1
CLK 2
SERIN 3
LE 4
GND 5
ATTIN 6
SER/PRL CONTROL
6-BIT DAT
18 VDD
17 PUP1
16 PUP2
15 SEROUT
14 GND
13 ATTOUT
7 8 9 10 11 12
ACG1 ACG2 ACG3 ACG4 ACG5 ACG6

PDF **Data Sheet**

View All

Features and Benefits

- 0.5 dB LSB Steps to 31.5 dB
- Power-Up State Selection
- High Input IP3: +57 dBm
- Low Insertion Loss: 1.5 dB @ 1.0 GHz
- TTL/CMOS Compatible, Serial, Parallel or Latched Parallel Control
- ±0.25 dB Typical Step Error
- Single +3V or +5V Supply
- 16 mm² Leadless SMT Plastic Package

Product Categories

RF & Microwave
- Digital Step Attenuators

Product Details

The HMC1095LP4E is a broadband 6-bit GaAs IC Digital Attenuator in a low cost leadless SMT package. This versatile digital attenuator incorporates off-chip AC ground capacitors for near DC operation, making it suitable for a wide variety of RF and IF applications. The dual mode control interface is CMOS/TTL compatible, and accepts either a three wire serial input or a 6 bit parallel word. The HMC1095LP4E also features a user selectable power up state and a serial output port for cascading other Hittite serial controlled components. The housed in a RoHS compliant 4x4 mm QFN leadless package,

and requires no external matching components.

Applications

- CATV/ Satellite Set Top Boxes
- CATV Modems
- CATV

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Product Lifecycle

Recommended for New Designs

This product has been released to the market. The data sheet contains all final specifications and operating conditions. For new designs, ADI recommends utilization of these products.

Evaluation Kits (1)

EVAL-HMC1095LP4	HMC1095LP4 Evaluation Board

Documentation

1 See All | 1 Data Sheets

HMC1095 Data Sheet

PDF
1.24 M

Reference Materials

1 See All | 1 Tape & Reel Specification

Tape & Reel Specification

4 x 4 mm QFN Tape Specification (LP4, LP4B, LP4C, LC4, LC4B)

Design Resources

ADI has always placed the highest emphasis on delivering products that meet the maximum levels of quality and reliability. We achieve this by incorporating quality and reliability checks in every scope of product and process design, and in the manufacturing process as well. "Zero defects" for shipped products is always our goal.

HMC1095 Material Declaration

PCN-PDN Information

Quality And Reliability

Symbols and Footprints

Discussions

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Sample & Buy

Model	Package	Pins	Temp Range	Packing Qty	Price (100-499)	Price (1000+)	RoHS	Order from Analog Devices
HMC1095LP4E Request PCN/PDN Notification Production	24 ld QFN (4x4mm w/2.8mm ep)	24	-40 to 85C	Reel, 50		-	Y Info	Purchase
HMC1095LP4ETR Request PCN/PDN Notification Production	24 ld QFN (4x4mm w/2.8mm ep)	24	-40 to 85C	Reel, 500		-	Y Info	Purchase

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The USA list pricing shown is for BUDGETARY USE ONLY, shown in United States dollars (FOB USA per unit for the stated volume), and is subject to change. International prices may differ due to local duties, taxes, fees and exchange rates. For volume-specific price or delivery quotes, please contact your local Analog Devices, Inc. sales office or authorized distributor. Pricing displayed for Evaluation Boards and Kits is based on 1-piece pricing.

Price Table Help

Evaluation Boards

Pricing displayed is based on 1-piece.

Model	Description	RoHS	
EV1HMC1095LP4 Production	Evaluation Board - HMC1095LP4E Evaluation Board	-	Yes

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