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HMC284A

SPDT, Non-Reflective Switch SMT, DC - 3.5 GHz

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Features and Benefits

- High Isolation: >45 dB
- Positive control: 0/+5V
- Non-Reflective Design
- Ultra Small Package: MSOP8G

Product Details

The HMC284AMS8G & HMC284AMS8GE are lowcost SPDT switches in 8-lead grounded base MSOP packages. The design has been optimized to provide high isolation with minimal insertion loss for medium and low power applications. On-chip circuitry allows positive voltage control operation at very low DC currents with control inputs compatible with CMOS and most TTL logic families. In the "OFF" state, RF1 and RF2 are non-reflective.

Applications

- Cellular/PCS Base Stations
- 2.4 GHz ISM
- 3.5 GHz Wireless Local Loop

Product Categories

RF & Microwave

- [SPST](#), [SPDT](#), [SP3T](#), [SP4T](#), [SP5T](#), [SP6T](#), [SP8T](#)

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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-HMC284AMS8G

HMC284AMS8G Evaluation Board

EVAL-HMC284AMS8G

Product Details

This page contains ordering information for evaluating the HMC284AMS8G.

[View Detailed Evaluation Kit Information](#)

Resources

- [HMC284AMS8G Gerber Files](#) 

Documentation

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 Data Sheets

HMC284A Data Sheet



594.65 K

Tools & Simulations

S-Parameters

HMC284A S-Parameters

198.69 K

Reference Materials

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 Quality Documentation

 Tape & Reel Specification

Quality Documentation

Quality Documentation

Quality Documentation

Semiconductor
Qualification Test
Report: PHEMT-J (QTR:
2013-00285)

Package/Assembly
Qualification Test
Report: MS8G (QTR:
2014-00393)

Semiconductor
Qualification Test
Report: pHEMT-J (QTR:
2012-00042)



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.

[HMC284A Material Declaration](#)

[PCN-PDN Information](#)

[Quality And Reliability](#)

[Symbols and Footprints](#)

Discussions



HMC284A Discussions

[Re: Low control voltage operation of HMC284A](#)
18 week(s) ago in RF and Microwave

[Low control voltage operation of HMC284A](#)
18 week(s) ago in RF and Microwave

[Re: Delay time of HMC284AMS8GE](#)

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Model	Package	Pins	Temp Range	Packing Qty	Price (100-499)	Price (1000+)	RoHS	Order from Analog Devices
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Model	Package	Pins	Temp Range	Packing Qty	Price (100-499)	Price (1000+)	RoHS	Order from Analog Devices
HMC284AMS8G PDN Last Time Buy	8 Id MSOP_EP	8	-40 to 85C	Reel, 50		-	N Info	Purchase
HMC284AMS8GE Request PCN/PDN Notification Production	8 Id MSOP_EP	8	-40 to 85C	Reel, 50		-	Y Info	Sample Purchase
HMC284AMS8GETR Request PCN/PDN Notification Production	8 Id MSOP_EP	8	-40 to 85C	Reel, 500		-	Y Info	Sample Purchase
HMC284AMS8GTR PDN Last Time Buy	8 Id MSOP_EP	8	-40 to 85C	Reel, 500		-	N Info	Purchase

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[Price Table Help](#)

Evaluation Boards

Pricing displayed is based on 1-piece.

Model	Description	RoHS
105143-HMC284AMS8G Production	Evaluation Board - HMC284AMS8G Evaluation PCB	Yes

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