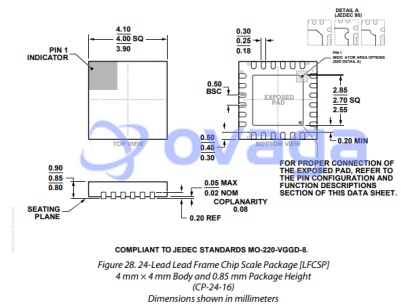


RF Switch IC, SP4T, 9 kHz to 12 GHz, 3 V to 3.6 V, LFCSP-24

Manufacturers	Analog Devices, Inc
Package/Case	HIGH ISOLATION, SP4T, 9KHZ - 12G
Product Type	RF Switches
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for ADRF5040BCPZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADRF5040 is a general-purpose, broadband high isolation, nonreflective single-pole, quad-throw (SP4T) switch in an LFCSP surface-mount package. Covering the 9 kHz to 12.0 GHz range, the switch offers high isolation and low insertion loss. The switch features 34 dB isolation and 0.8 dB insertion loss up to 8.0 GHz, and a 9 μ s settling time of 0.05 dB margin of the final radio frequency output (RFOUT). The switch operates using positive control voltage of 3.3 V and 0 V and requires +3.3 V and -3.3 V supplies. The ADRF5040 is packaged in a 4 mm x 4 mm, surface-mount LFCSP package.

Features

Nonreflective 50 Ω design

Positive control range: 0 V to 3.3 V

Low insertion loss: 0.8 dB at 8.0 GHz

High isolation: 34 dB at 8.0 GHz

High power handling

33 dBm through path

27 dBm termination path

High linearity

1 dB compression (P1dB): 37 dBm typical

Input third-order intercept (IIP3): 58 dBm typical at 8.0 GHz

ESD rating: 4 kV human body model (HBM)

4 mm \times 4 mm, 24-lead LFCSP package

No low frequency spurious

RF settling time (0.05 dB margin of final RFOUT): 9 μ s

Application

Test instrumentation

Microwave radios and very small aperture terminals (VSATs)

Military radios, radars, and electronic counter measures (ECMs)

Fiber optics and broadband telecommunications

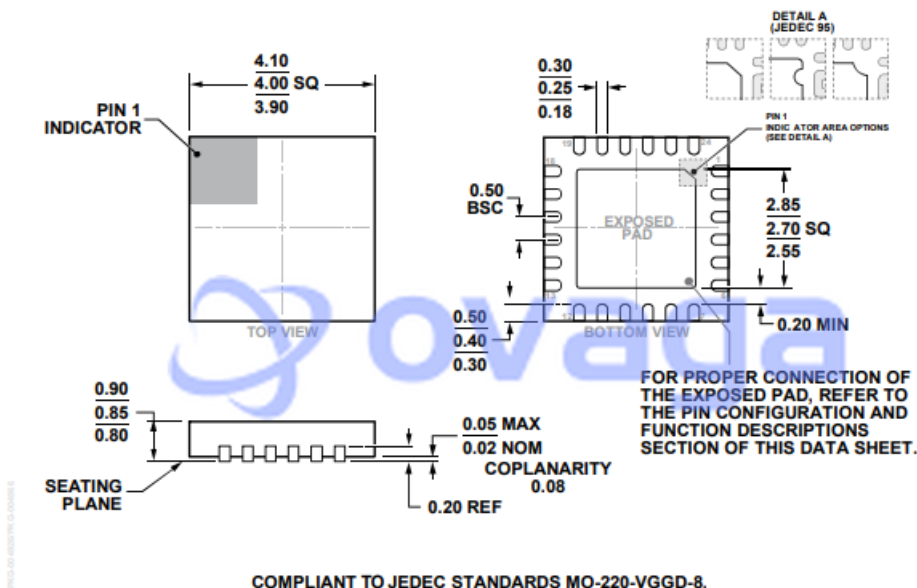


Figure 28. 24-Lead Lead Frame Chip Scale Package [LFCSP]
4 mm \times 4 mm Body and 0.85 mm Package Height
(CP-24-16)

Dimensions shown in millimeters

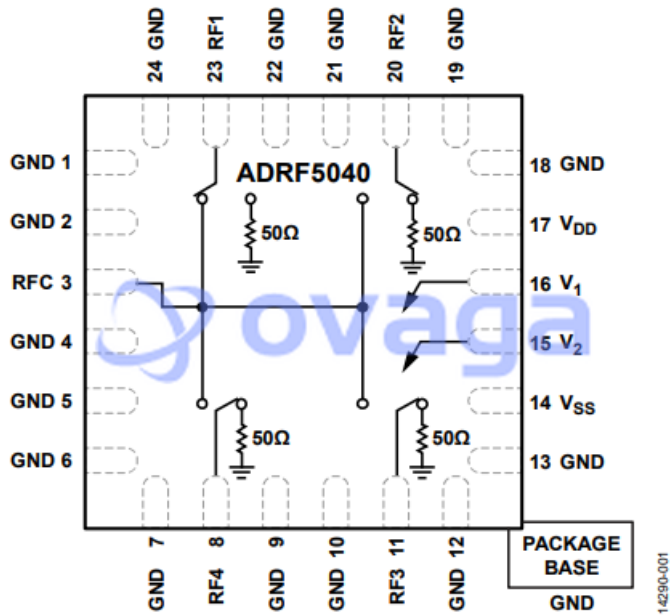


Figure 1.

Related Products



[ADL5330ACPZ](#)

Analog Devices, Inc
LFCSP24



[AD630SD](#)

Analog Devices, Inc
20 ld Side-BrazedCerDIP



[AD831AP](#)

Analog Devices, Inc
20 ld PLCC



[ADL5350ACPZ](#)

Analog Devices, Inc
LFCSP-8



[ADL5240ACPZ-R7](#)

Analog Devices, Inc
LFCSP-32



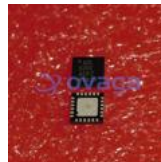
[AD607ARSZ-REEL](#)

Analog Devices, Inc
SSOP-20



[ADG901BRM](#)

Analog Devices, Inc
MSOP-8



[ADL5201ACPZ-R7](#)

Analog Devices, Inc
LFCSP24