

Quadrature Mod 56-Pin LFCSP EP Tray**Manufacturer:** [Analog Devices, Inc](#)**Package/Case:** QFN**Product Type:** RF Integrated Circuits**RoHS:** RoHS Compliant/Lead free **Lifecycle:** Active

Images are for reference only

[Inquiry](#)**General Description**

The ADRF6755 is a highly integrated quadrature modulator, frequency synthesizer, and programmable attenuator. The device covers an operating frequency range from 100 MHz to 2400 MHz for use in satellite, cellular, and broadband communications.

The ADRF6755 modulator includes a high modulus, fractional-N frequency synthesizer with integrated VCO, providing less than 1 Hz frequency resolution, and a 47 dB digitally controlled output attenuator with 1 dB steps.

Control of all the on-chip registers is through a user-selected SPI interface or I2C interface. The device operates from a single power supply ranging from 4.75 V to 5.25 V.

Key Features

I/Q modulator with integrated fractional-N PLL and VCO

Gain control span: 47 dB in 1 dB steps

Output frequency range: 100 MHz to 2400 MHz

Output 1 dB compression: 8 dBm at>

Output IP3: 20.5 dBm at>

Noise floor: -161 dBm/Hz at>

Baseband modulation bandwidth: 600 MHz (3 dB)

Output frequency resolution: 1 Hz

SPI and I2C-compatible serial interfaces

Power supply: 5 V/380 mA



Recommended For You

ADF4153BCPZ

Analog Devices, Inc

QFN

ADF5355BCPZ

Analog Devices, Inc

LFCSP32

AD8318ACPZ

Analog Devices, Inc

LFCSP

AD6620ASZ

Analog Devices, Inc

QFP

ADF4107BCPZ

Analog Devices, Inc

QFN

ADL5513ACPZ-R7

Analog Devices, Inc

LFCSP-16

AD8319ACPZ

Analog Devices, Inc

LFCSP

ADL5535ARKZ-R7

Analog Devices, Inc

SOT89

AD608AR

Analog Devices, Inc

SOP16

ADF4107BRUZ-REEL7

Analog Devices, Inc

TSSOP16

ADRF6780ACPZN

Analog Devices, Inc

QFN

AD8317ACPZ

Analog Devices, Inc

LFCSP

AD608ARZ

Analog Devices, Inc

SOP16

AD8318ACPZ-REEL7

Analog Devices, Inc

LFCSP

ADF7021BCPZ

Analog Devices, Inc

LFCSP48