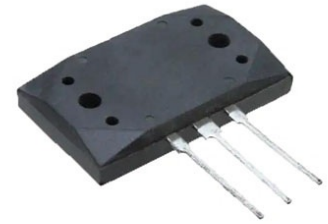


Phase Shifter Analog 8000MHz to 23000MHz 16-Pin CQFN EP

T/R



Images are for reference only

[Inquiry](#)

Manufacturer: [Analog Devices, Inc](#)

Package/Case: SMT-16

Product Type: RF Integrated Circuits

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The HMC877LC3 is a phase shifter/time delay with 0 to 500°(1.4 UI) continuously adjustable shift/delay range. The delay control is linearly monotonic with respect to the differential control voltage (VDCP, VDCN) and the control input has a modulation bandwidth of 2.5 GHz. The device provides a differential output voltage with constant amplitude for single-ended or differential input voltages above the input sensitivity level, while the output voltage swing may be adjusted using the VAC control pin.

The HMC877LC3 features internal temperature compensation and bias circuitry to minimize delay variations with temperature. The device also features a delay control voltage range adjustment pin, LC. All RF input and outputs of the HMC877LC3 are internally terminated with 50 Ohms to Vcc, and may either be AC or DC coupled. Output pins can be connected directly to a 50 Ohm to Vcc terminated system, while DC blocking capacitors must be used if the terminated system input is 50 Ohms to a DC voltage other than Vcc. The HMC877LC3 is available in ROHS-compliant 3 x 3 mm SMT package.

Key Features

Very Wide Bandwidth: 8 - 23 GHz

Continuous Adjustable Delay Range: 500° (1.4 Unit Interval)

Single-Ended or Differential Operation

Adjustable Differential Output Voltage Swing: 500 - 950 mVp-p @ 16 GHz

Delay Control Modulation Bandwidth: 2.5 GHz

Single Supply: +3.3V

16 Lead Ceramic 3x3 mm SMT Package: 9 mm²

Application

Synchronization of Clock & Data

Transponder Design

Broadband Test & Measurement

RF ATE Applications

Recommended For You

HMC856LC5

Analog Devices, Inc
QFN-32

HMC7044LP10BETR

Analog Devices, Inc
LFCSP68

HMC1031MS8ETR

Analog Devices, Inc
MSOP8

HMC7044LP10BE

Analog Devices, Inc
LFCSP68

HMC877LC3TR

Analog Devices, Inc
QFN

LTC6957HMS-3

Analog Devices, Inc
MSOP12

HMC911LC4BTR

Analog Devices, Inc
LGA-24

HMC877LC3TR-R5

Analog Devices, Inc
SMT-16

HMC910LC4B

Analog Devices, Inc
QFN-24

AD9517-3ABCPZ

Analog Devices, Inc
QFN

AD9954YSV

Analog Devices, Inc
QFP

ADCLK914BCPZ-WP

Analog Devices, Inc
LFCSP-16

DS1244Y-70+

Analog Devices, Inc
DIP

AD7008JP50

Analog Devices, Inc
PLCC44

AD9952YSV

Analog Devices, Inc
QFP