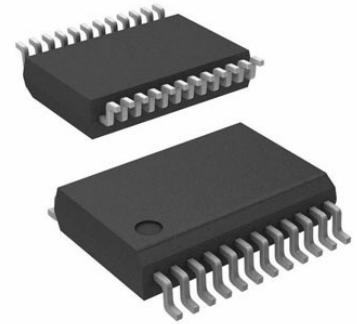


Energy Measurement 24-Pin SOIC W

Manufacturer:	Analog Devices, Inc
Package/Case:	SOP24
Product Type:	Discrete Semiconductor Modules
Lifecycle:	Obsolete



Images are for reference only

[Inquiry](#)

General Description

The ADE7754 is the electricity industry's first digitally calibrated, multi-function energy measurement IC programmable for all types of 3-phase grid configurations. This single chip solution measures active and apparent energy and provides a serial port interface and a pulse output. The ADE7754 transducer interface uses three fully differential current inputs and three single-ended voltage inputs. The six ADC's digitize the signals so that all signal processing is done in the digital domain for superior stability and accuracy. The ADE7754 includes reference circuitry, temperature sensor, and all the signal processing required to perform active and apparent energy measurement as well as RMS calculation on all current and voltage channels. Additional power quality measurements are included.

The ADE7754 surpasses the IEC61036/60687 accuracy requirements and provides an SPI interface for digital calibration and reading register data.

The ADE7754 is available in 24-lead SOIC package.

NOTE: If your application requires the measurement of reactive energy and information per phase, the ADE7758 is recommended.

Key Features

Exceeds IEC61036/60687

Less than 0.1% error in Active Energy over dynamic range of 1000:1

Active and Apparent Energy, Vrms and Irms measurements

High Frequency pulse output

Voltage SAG and Zero-crossing,

Current and Voltage Peak,

Reverse Active Power,

Frequency/Period Measurement

On chip Temperature Sensor and Voltage Reference (2.4 V)

Low Power (50 mW typical)

Recommended For You

ADE7751ARS

Analog Devices, Inc
SSOP24

AD1816AJS

Analog Devices, Inc
QFP

AD7751AN

Analog Devices, Inc
DIP24

ADV7541BCBZ-P-2RL

Analog Devices, Inc
BGA

AD1892JR

Analog Devices, Inc
SOP

AD7816ARMZ-REEL7

Analog Devices, Inc
SOP8

AD7816ARMZ

Analog Devices, Inc
MSOP8

AD7751ARS

Analog Devices, Inc
SSOP24

AD7751AAN

Analog Devices, Inc
DIP

AD1895AYRSRL

Analog Devices, Inc
SSOP28

ADV7162KSZ220

Analog Devices, Inc
QFP160

ADV473KP66

Analog Devices, Inc
PLCC

AD9859YSV

Analog Devices, Inc
QFP

ADV7541BCBZ-2RL

Analog Devices, Inc
BGA

ADV473KP80

Analog Devices, Inc
PLCC