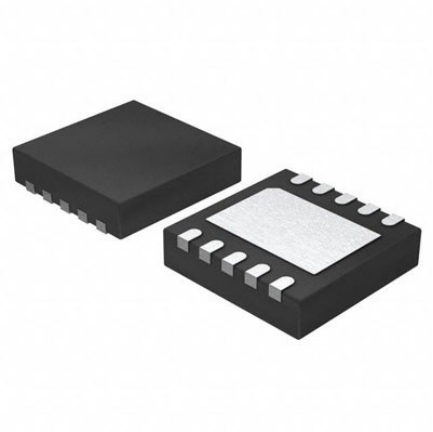
LMV225SD

RF Power Detector for CDMA and WCDMA

Manufacturer:	Texas Instruments, Inc
Package/Case:	WSON6
Product Type:	RF Integrated Circuits
Lifecycle:	Obsolete



Images are for reference only

Inquiry

General Description

The LMV225/LMV226/LMV228 are 30 dB RF power detectors intended for use in CDMA and WCDMA applications. The device has an RF frequency range from 450 MHz to 2 GHz. It provides an accurate temperature and supply compensated output voltage that relates linearly to the RF input power in dBm. The circuit operates with a single supply from 2.7V to 5.5V. The LMV225/LMV226/LMV228 have an integrated filter for low-ripple average power detection of CDMA signals with 30 dB dynamic range. Additional filtering can be applied using a single external capacitor.

The LMV225 has an RF power detection range from –30 dBm to 0 dBm and is ideally suited for direct use in combination with resistive taps. The LMV226/LMV228 have a detection range from –15 dBm to 15 dBm and are intended for use in combination with a directional coupler. The LMV226 is equipped with a buffered output which makes it suitable for GSM, EDGE, GPRS and TDMA applications.

The device is active for Enable = HI, otherwise it is in a low power consumption shutdown mode. During shutdown the output will be LOW. The output voltage ranges from 0.2V to 2V and can be scaled down to meet ADC input range requirements.

The LMV225/LMV226/LMV228 power detectors are offered in the thin 1.0 mm x 1.0 mm x 0.6 mm DSBGA package and the ultra thin 1.0 mm x 1.0 mm x 0.35 mm DSBGA package. The LMV225 and the LMV228 are also offered in the 2.2 mm x 2.5 mm x 0.8 mm WSON package.

Key Features

30 dB Linear in dB Power Detection Range

Output Voltage Range 0.2 to 2V

Logic Low Shutdown

Multi-Band Operation from 450 MHz to 2000 MHz

Accurate Temperature Compensation

Packages:

DSBGA Thin 1.0 mm x 1.0 mm x 0.6 mm

DSBGA Ultra Thin 1.0 mm x 1.0 mm x 0.35 mm

WSON 2.2 mm x 2.5 mm x 0.8 mm(LMV225 and LMV228)

Recommended For You

LM1972M

Texas Instruments, Inc

SOP20

LM1496N

Texas Instruments, Inc

DIP14

LM1971M

Texas Instruments, Inc

SOP-8

LM1871N

Texas Instruments, Inc

DIP18

LMH2120UM/NOPB

Texas Instruments, Inc

DSBGA-6

LMX2541SQE2060E/NOPB

Texas Instruments, Inc

WQFN-36

LM1971MX/NOPB

Texas Instruments, Inc

8-SOIC

LMP91051MT/NOPB

Texas Instruments, Inc

14-TSSOP

LMX2470SLEX/NOPB

Texas Instruments, Inc

QFN

LMH2110TMX/NOPB

Texas Instruments, Inc

DSBGA-6

LMH2110TM/NOPB

Texas Instruments, Inc

DSBGA6

LMV221SD

Texas Instruments, Inc

QFN

LM1496M

Texas Instruments, Inc

SOP14

LMH2110TM

Texas Instruments, Inc

SMD-6

LM1972M/NOPB

Texas Instruments, Inc

SOP20