


SP Amp LOG Amp Dual $\pm 8V$ 16-Pin PDIP Tube

Manufacturer:	Texas Instruments, Inc
Package/Case:	DIP
Product Type:	Amplifier ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

This amplifier circuit contains four 30-dB logarithmic stages. Gain in each stage is such that the output of each stage is proportional to the logarithm of the input voltage over the 30-dB input voltage range. Each half of the circuit contains two of these 30-dB stages summed together in one differential output that is proportional to the sum of the logarithms of the input voltages of the two stages. The four stages may be interconnected to obtain a theoretical input voltage range of 120-dB. In practice, this permits the input voltage range typically to be greater than 80-dB with log linearity of ± 0.5 -dB (see application data). Bandwidth is from dc to 40 MHz.

This circuit is useful in data compression and analog compensation. This logarithmic amplifier is used in log IF circuitry as well as video and log amplifiers. The TL441 is characterized for operation over 0°C to 70°C.

Key Features

- Excellent Dynamic Range
- Wide Bandwidth
- Built-In Temperature Compensation
- Log Linearity (30-dB Sections)...1 dB Typ
- Wide Input Voltage Range

Recommended For You

TLC27M2CP

Texas Instruments, Inc
DIP8

TLV3501AIDR

Texas Instruments, Inc
SOP8

TL071ACP

Texas Instruments, Inc
DIP-8

TL062CDR

Texas Instruments, Inc
SOP8

TLE2142IP

Texas Instruments, Inc
DIP8

TLC272AID

Texas Instruments, Inc
SOP-8

TLV3502AQDCNRQ1

Texas Instruments, Inc
SOT23-8

TL084CD

Texas Instruments, Inc
SOP14

TLV2711DBVR

Texas Instruments, Inc
SOT23-5

TLC074CD

Texas Instruments, Inc
SOP14

TLC2272ACD

Texas Instruments, Inc
SOP-8

TLC2272AIDR

Texas Instruments, Inc
SOP8

TLV2462ID

Texas Instruments, Inc
SOP-8

TLV2471QDBVRQ1

Texas Instruments, Inc
SOT23-5

TLV2381IDBVR

Texas Instruments, Inc
SOT23-5