

SA571

Comparator

Product Overview

For complete documentation, see the data sheet.

The SA571 Comparator is a versatile low cost dual gain control circuit in which either channel may be used as a dynamic range compressor or expander. Each channel has a full-wave rectifier to detect the average value of the signal, a linearized temperature-compensated variable gain cell, and an operational amplifier. The SA571 is well suited for use in cellular radio and radio communications systems, modems, telephone, and satellite broadcast/receive audio systems.

Features



- Complete Compressor and Expander in one IC
- Temperature Compensated
- Greater than 110 dB Dynamic Range
- Operates Down to 6.0 VDC
- System Levels Adjustable with External Components
- Distortion may be Trimmed Out
- Dynamic Noise Reduction Systems
- Voltage-controlled Amplifier

Applications

- High Level Limiter
- Low Level Expander – Noise Gate
- Dynamic Filters

End Products

- Audio Amplifier
- Satellite Radio

Part Electrical Specifications												
Product	Pricing (\$/Unit)	Compliance	Status	Class	Output Power Typ (W)	V _{CC} Max (V)	Output Type	t _{on} Typ (ms)	THD + N Typ (%)	I _Q Typ (mA)	I _{SD} Typ (nA)	Package Type
SA571DR2G	3.0666	 	Active	-	-	18	-	-	-	-	-	SOIC-16W