



XR-4560

Dual Low Noise Operational Amplifier

GENERAL DESCRIPTION

The XR-4560 is a dual low noise, wide bandwidth operational amplifier ideal for active filter applications. The device is similar to the XR-1458/4558, with greatly enhanced slew rate, bandwidth, and guaranteed noise characteristics.

Pin for pin compatibility allows direct substitution for industry standard dual op amps where the low noise and wide bandwidth of the XR-4560 is imperative.

FEATURES

High Gain, Low Input Noise
Internally Compensated
Wide Small Signal Bandwidth
Interchangeable with General Purpose Dual Op Amps

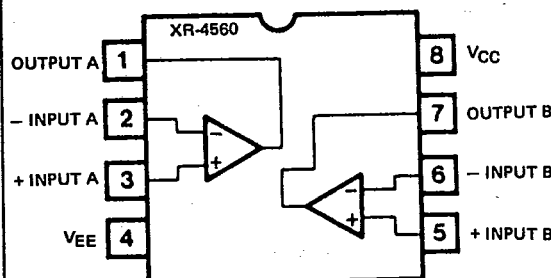
APPLICATIONS

High Gain, Low Noise Amplifier
High Performance Active Filter
Small Signal Amplifier
Servo Control System
Telephone Channel Amplifier

ABSOLUTE MAXIMUM RATINGS

Supply Voltage	± 18 V
Power Dissipation	500 mW
Derate Above at 25°C	5 mW/°C
Operating Temperature	0°C to +70°C
Storage Temperature	-55°C to +125°C
Differential Input Voltage	± 30 V
Common Mode Range	VEE to VCC

FUNCTIONAL BLOCK DIAGRAM



ORDERING INFORMATION

Part Number	Package	Operating Temperature
XR-4560CP	Plastic	0°C to 70°C
XR-4560CN	Ceramic	0°C to 70°C
XR-4560MD	SO-8	0°C to 70°C

SYSTEM DESCRIPTION

The XR-4560 dual op amp offers guaranteed low noise and a 10 MHz small signal bandwidth. Slew rate typically exceeds 4 V/ μ S. Internal protection circuitry includes latch-up elimination, short circuit current limiting, and internal compensation.

The two amplifiers are completely independent, sharing only power supply connections.