

LOW POWER FM IF SYSTEM

SA/NE604

Preliminary

DESCRIPTION

The SA/NE604 is a monolithic low power FM IF system incorporating two limiting intermediate frequency amplifiers, quadrature detector, muting, logarithmic signal strength indicator, and voltage regulator. The SA/NE604 is available in a 16 lead dual-in-line plastic package and 16 lead SO (surface mounted miniature package).

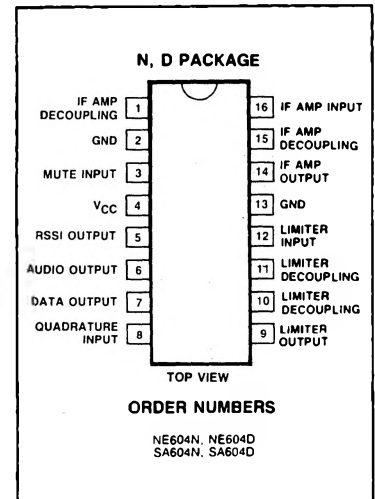
FEATURES

- Low power consumption: 2.3mA typical
- Logarithmic Received Signal Strength Indicator (RSSI) with a dynamic range in excess of 90dB
- Separate data output
- Audio output with muting
- Low external count; suitable for crystal/ceramic filters
- Excellent sensitivity: 1.5 μ V across input pins (0.27 μ V into 50 Ω matching network) for 12dB SINAD (Signal to Noise and Distortion ratio) at 455kHz

APPLICATIONS

- Cellular Radio FM IF
- Communications receivers
- Intermediate frequency amplification and detection up to 10.7MHz
- RF level meter
- Spectrum analyzer

PIN CONFIGURATION



ABSOLUTE MAXIMUM RATINGS

SYMBOL AND PARAMETER	RATING	UNIT
Maximum operating voltage	9	V
Storage temperature	-65 to +150	°C
Operating temperature		
NE604	0 to +70	°C
SA604	-40 to +85	°C

BLOCK DIAGRAM

