LM3028A/LM3028B/LM3053 rf/if amplifier

general description

The LM3028A/LM3028B/LM3053 are monolithic RF/IF amplifiers intended for emitter-coupled (differential) or cascode amplifier operation from dc to 120 MHz in industrial and communications equipment. The LM3028B is similar to the LM3028A, but has premium performance with tighter limits in offset voltage and current, bias current and voltage gain. The LM3053 is similar to the LM3028A/LM3028B, but is recommended for IF amplifier operation with less critical dc parameters. The devices are direct plug-in replacements for their respective CA equivalents. Features include:

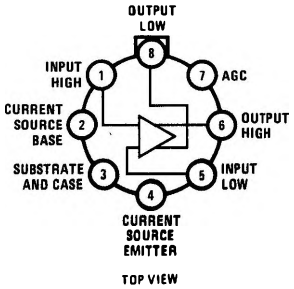
- Controlled for input offset voltage, input offset current, and input bias current*
- Balanced differential amplifier configuration with controlled constant-current source to provide unexcelled versatility
- Single- and dual-ended operation
- Operation from dc to 120 MHz*
- Balanced-AGC capability*
- Wide operating-current range

*Does not apply to the LM3053

Applications include:

- RF and IF linear amplifiers, both differential and cascode
- Mixers
- Oscillators
- Converters in commercial FM
- DC, audio and sense amplifiers
- Limiting IF amplifiers
- Hybrid building block
- Emitter-coupled switches

connection diagram



TOP VIEW