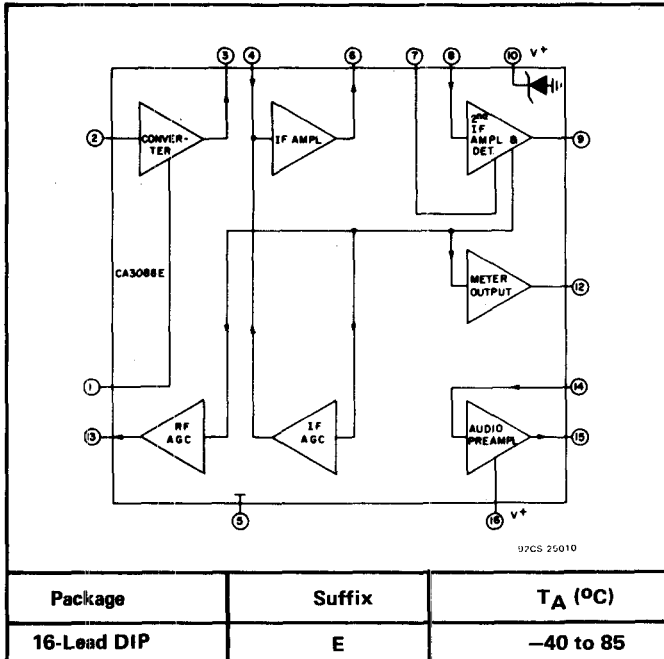


# ⑥ AM Receiver Circuits

## AM Receiver Subsystem

CA3088



File No. 560\*

### Applications and Features

For a variety of AM broadcast and communications receivers

Includes: AM Converter, IF Amplifiers, Detector, Audio Pre-amplifier and Meter Output

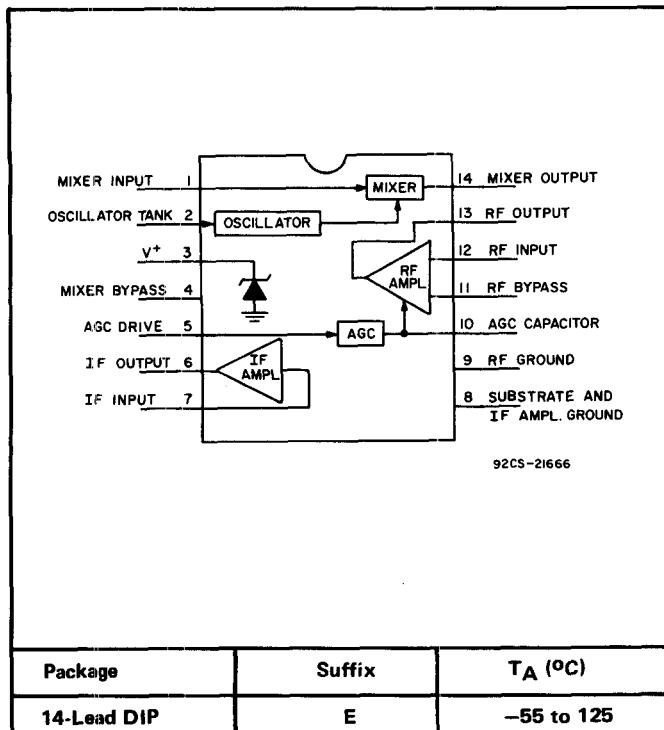
- Internal Zener diode provides voltage regulation
- Two if amplifier stages
- Operates from wide range of power supplies: V<sup>+</sup> = 6 to 18 volts
- Suitable for use with optional external rf stage, either MOS or bipolar
- Excellent overload characteristics
- AGC for if amplifier
- Buffered output signal for tuning meter
- Delayed agc for rf amplifier
- Terminals for optional inclusion of tone control

### Typical Electrical Characteristics at T<sub>A</sub> = 25°C

Detector Output	75 mV RMS
Audio Amplifier Gain	30 dB
Audio Distortion	0.2 %
Sensitivity:	
Converter Stage Input	200 μV/m
RF Stage Input	100 μV/m
Total Harmonic Distortion	1.0 %

## AM Radio Receiver Subsystem

CA3123



File No. 631\*

### Applications and Features

For use in superheterodyne AM receivers, particularly in automobiles

Includes RF Amplifier, IF Amplifier, Mixer, Oscillator, AGC Detector, and Voltage Regulator

- Mixer-oscillator stage with internal feedback – eliminates need for tapped or multi-winding oscillator coils
- Frequency-counter AGC circuit – allows control of AGC response by selection of the coupling capacitor
- Integral regulation with built-in surge protection
- Separately accessible amplifiers

### Typical Electrical Characteristics

Sensitivity	2.3 μV
Signal-to-Noise Ratio	43 dB
Overload Distortion	0.4 V