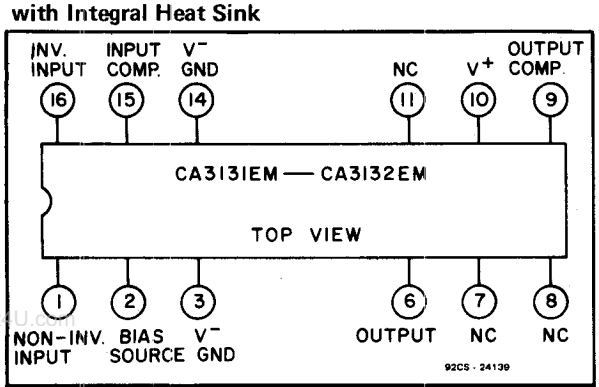
5-Watt Audio Amplifiers

with Integral Heat Sink

CA3131
CA3132



Package	Suffix	T_A (°C)
Modified 16-Lead DIP	EM	70

File No. (Preliminary Data)*

Applications and Features

Power Output . . . 5W typ.
Complete amplifier including:
preamplifier stages, power output amplifier, and integral heat sink
Available with internal feedback (CA3131EM) or without feedback (CA3132 EM)
Operating voltage . . $V^+ = 24$ V
High power supply rejection ratio

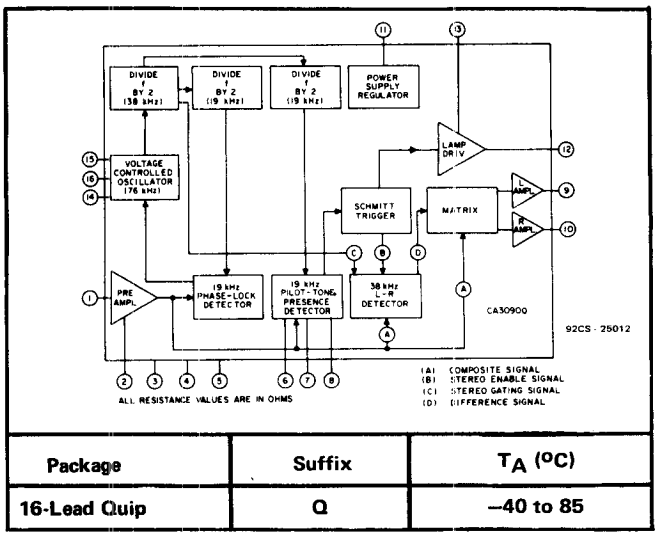
Typical Electrical Characteristics

Power Output at $R_L = 8\Omega$	5 W
Closed-Loop Gain (CA3131)	48 dB
Supply Current	10 mA
Total Harmonic Distortion	1 %
Noise Voltage	1.5 mV RMS

Multiplex Decoders

Multiplex Decoders

CA3090A



Package	Suffix	T_A (°C)
16-Lead Quip	Q	−40 to 85

File No. 502*

The CA3090AQ is the successor to the CA3090A and offers the following four major advantages:

- directly drives a stereo indicator lamp (up to 100 mA)
- stereo defect/enable capability and control voltage specifications.
- capable of operation with lower distortion (0.22% typ.)
- operation permissible without use of input current bypass capacitor.

Applications and Features

For FM stereo multiplex systems
Automatic stereo switching
Requires the use of only one low-inductance tuning coil

Power-supply range: 10 to 16 volts
Requires only one adjustment for alignment
Switching from monaural to stereo and stereo to monaural produces no audible thumps
High signal output: directly drives audio amplifiers
Excellent SCA (storecast) rejection: 72 dB typ.
High audio channel separation: 40 dB typ.

Electrical Characteristics $T_A = 25°C$

Capture Range (Deviation from 76-kHz center frequency)	±10	% typ.
19-kHz Rejection	35	dB typ.
38-kHz Rejection	48	dB typ.
SCA (storecast) Rejection	72	dB typ.

Electrical Characteristics at $T_A = 25°C$

Channel Separation (L + R Reference)	40	dB typ.
Channel Balance (Monaural)	3	dB max.
Monaural Gain	6	dB typ.
Stereo/Monaural Gain Ratio	±3	dB max.
Indicator Lamp – Turn-ON Voltage	4	mV typ.
Input Impedance	50	kΩ typ.

*Refer to indicated File No. for data bulletin and where given to indicated ICAN No. for application note.