

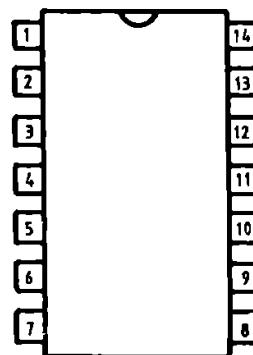
\$ BMC 1309A
\$ BMC 1309
 PHASE LOCK LOOP STEREO DECODERS

The BMC 1309A and BMC 1309 are monolithic integrated circuits using IIL and linear bipolar technology. They perform the function of a stereo signal demodulator - decoder. Internal functions include automatic mono - stereo mode switching and drive for an external lamp to indicate stereo mode operation. The decoder uses a low number of external components. It has only one control to adjust : a potentiometer to set oscillator frequency. No external coils are required.

Features

- Operating temperature	-25 ...	170	oC
- Storage temperature	-25 ...	+125	oC
- Supply voltage	BMC 1309A ...	4.5 ...	16 V
	BMC 1309 ...	6.0 ...	16 V
- Channel balance	max.	1	dB
- Monaural gain	typ.	0.9	dB
- Channel separation	typ.	40	dB
- Capture range	min.	+/- 7	%

- 1. V+
- 2. Input
- 3. Amplifier output
- 4. Left channel output
- 5. Right channel output
- 6. Lamp indicator
- 7. GND
- 8. Switch filter
- 9. Switch filter
- 10. 19 kHz output
- 11. Phase & amplitude detector input
- 12. Loop filter
- 13. Loop filter
- 14. Oscillator RC network



PACKAGE TO-116 / TOP VIEW

\$ Preliminary data

LINEAR INTEGRATED CIRCUITS —RADIO-TV—

BRUNNEN

BMC 1309A ; BMC 1309 (cont)

Typical application and test circuit

C1 = 2 uF	R1 = 3.3 kohms
C2 = 22 nF	R2 = 3.3 kohms
C3 = 22 nF	R3 = 1 kohms
C4 = 0.22 uF	R4 = 16 kohms
C5 = 47 nF	R5 = 5 kohms
C6 = 0.47 uF	
C7 = 470 pF	
C8 = 0.22 uF	

