



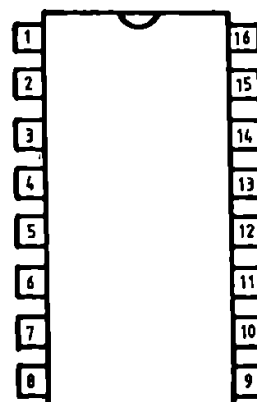
TDA 1046 AM DEMODULATOR AMPLIFIER

The TDA 1046 is an AM demodulator-amplifier operating at a carrier frequency up to 30 MHz. The integrated circuit is intended to be used in HI-FI radio receivers and incorporates the following stages : gain controlled RF and IF amplifiers, oscillator, mixer, symmetrical AM demodulator, active filter, low frequency amplifier.

Features

- Operating temperature	-25 ... +70 °C
- Storage temperature	-25 ... +125 °C
- Supply voltage	max. 18 V
- Supply current	15 ... 25 mA
- Reference voltage ($I_{16} = 3 \text{ mA}$)	3 ... 3.8 V
- Oscillator frequency	0.5 ... 31 MHz
- Oscillator output signal	max. 350 mVrms
- HF signal frequency	0 ... 30 MHz
- IF signal frequency	0.2 ... 9 MHz
- RF amplifier AGC range	min. 40 dB
- IF amplifier AGC range	min. 45 dB
- Output harmonic distortion ($m = 80 \%$)	max. 1 %
- Output harmonic distortion ($m = 30 \%$)	max. 0.6 %
- Noise to signal ratio ($m = 30 \%$ / $m = 0 \%$) ..	typ. 53 dB
- Available field indicator current	1 ... 1.5 mA

- | 1. GND
- | 2. IF input
- | 3. IF input
- | 4. IF output
- | 5. AGC / IF
- | 6. AUDIO output
- | 7. V+
- | 8. Mixer output
- | 9. RF input
- | 10. RF input
- | 11. Field indicator
- | 12. RF output
- | 13. Mixer input
- | 14. AGC / RF
- | 15. LC oscillator circuit
- | 16. 3.3 V stabilized voltage



PACKAGE MP-117 / TOP VIEW