

AM-FM QUALITY RADIO

The TDA1220B is a monolithic integrated circuit in a 16-lead dual in-line package.

It is intended for quality receivers produced in large quantities.

The functions incorporated are:

AM SECTION

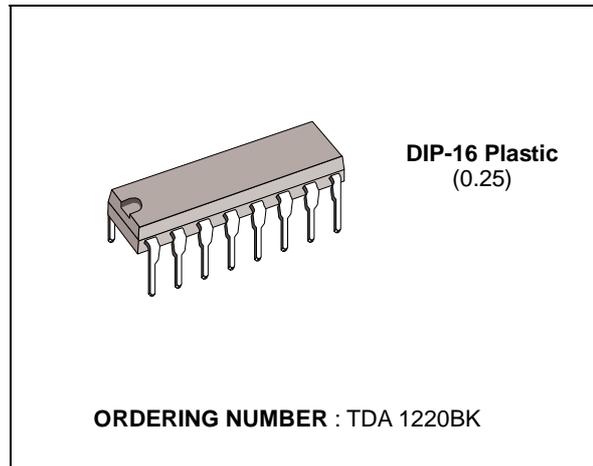
- Preamplifier and double balanced mixer
- One pin local oscillator
- IF amplifier with internal AGC
- Detector and audio preamplifier

FM SECTION

- IF amplifier and limiter
- Quadrature detector
- Audio preamplifier

The TDA1220B is suitable up to 30MHz AM and for FM bands (including 450KHz narrow band) and features:

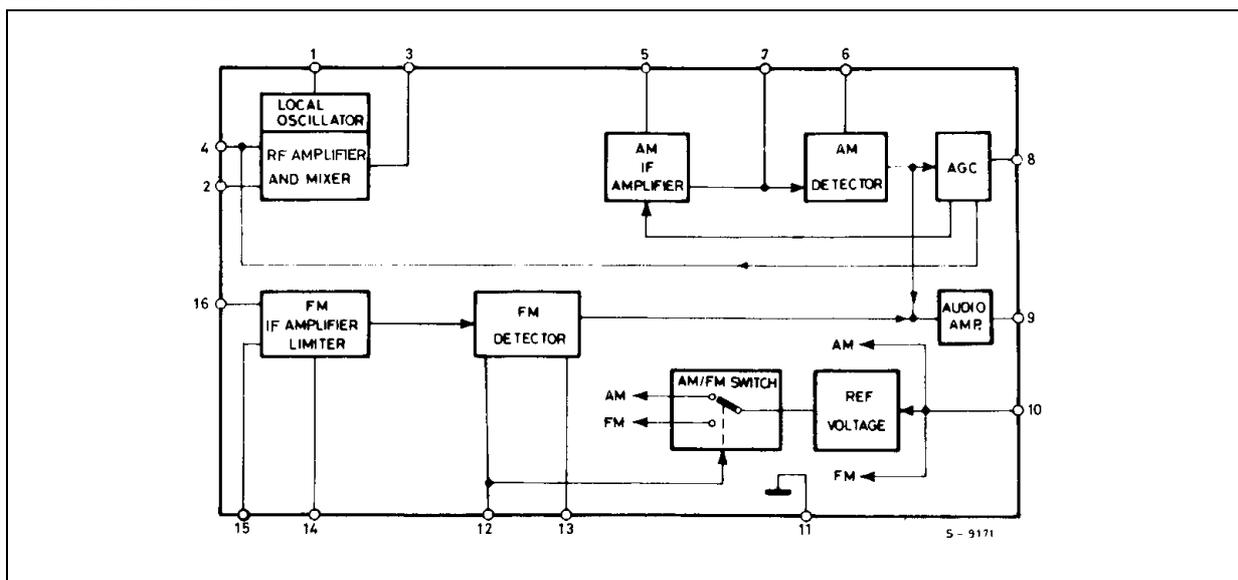
- Very constant characteristics (3V to 16V)
- High sensitivity and low noise
- Very low tweed



- Sensitivity regulation facility (*)
- High recovered audio signal suited for stereo decoders and radio recorders
- Very simple DC switching of AM-FM
- Low current drain
- AFC facility

(*) Maximum AM sensitivity can be reduced by means of a resistor (5 to 12K Ω) between pin 4 and ground.

BLOCK DIAGRAM

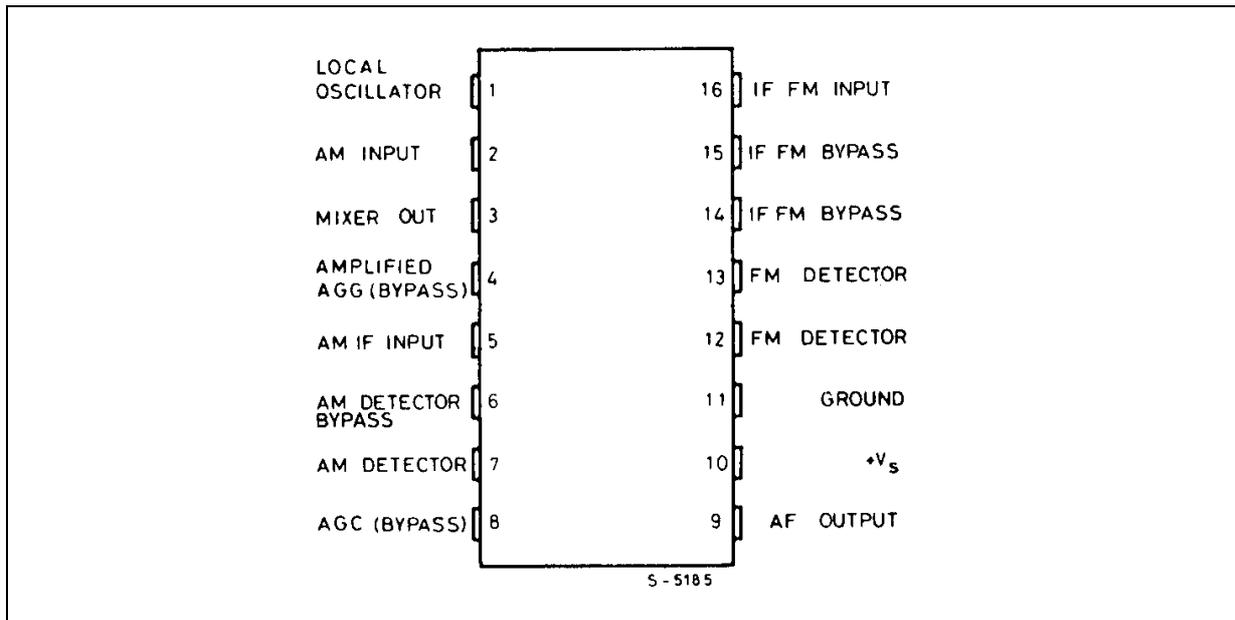


ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V _s	Supply voltage	16	V
P _{tot}	Total power dissipation at T _{amb} < 110°C	400	mW
T _{op}	Operating temperature	-20 to 85	°C
T _{stg} , T _j	Storage and junction temperature	-55 to 150	°C

PIN CONNECTION

(Top view)



THERMAL DATA

Symbol	Parameter	Value	Unit
R _{th-j-amb}	Thermal resistance junction-ambient	max 100	°C/W