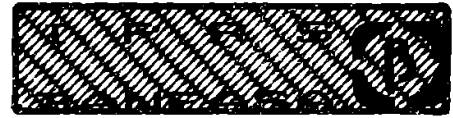


**LINEAR
INTEGRATED
CIRCUITS
-RADIO-TV-**



**βU 1014N
LOW VOLTAGE AM RECEIVER**

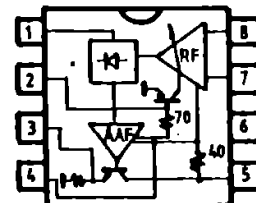
The βU 1014N is a dedicated circuit for use in AM portable radio receivers with typical voltage supply 1.5 V. The circuit consists of :

- RF (IF) amplifier with AGC
- AM demodulator
- Audio frequency amplifier with internal fixed gain (at 30 dB)

Features

- Supply voltage	1 ...	2 V
- Supply current (RL = 100 ohms)	max.	10 mA
- Operating frequency	max.	2 MHz
- RF input impedance	min.	300 kohms
- Sensibility (see Note 1)	max.	1 mV
- AGC efficiency (see Note 2)	typ.	30 dB
- RF input amplitude	max.	30 mV

- 1. AAF input
- 2. AAF decoupling / AGC
- 3. Output AF
- 4. V+ decoupling
- 5. V+
- 6. GND
- 7. RF (IF) amplifier decoupling
- 8. RF (IF) input

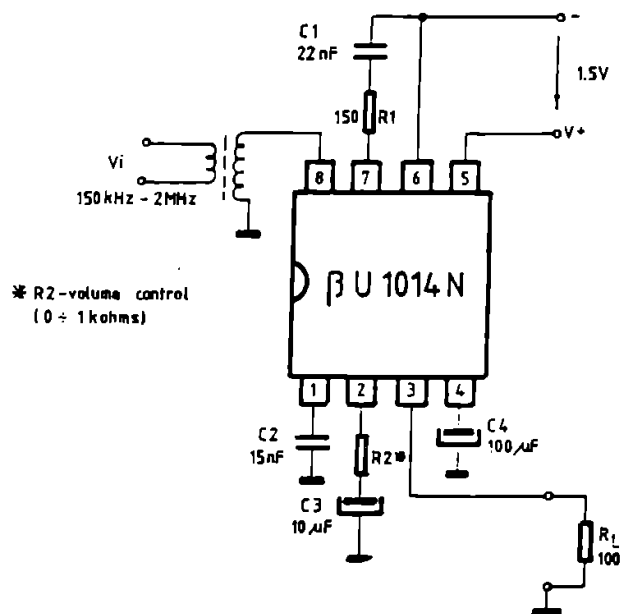


PACKAGE MP-48 / TOP VIEW



BU 1014N (cont.)

Typical application



Note 1 : $f_i = 1 \text{ MHz}$; $f_m = 1 \text{ kHz}$; $m = 30 \%$; $v_{o3} > 60 \text{ mV}$

Note 2 : for 6 dB nonuniformity at AF output