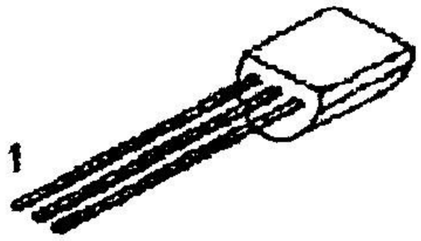
ONE CHIP AM RADIO CIRCUIT

DESCRIPTION

The TA7642 is suitable for low voltage portable Radio. cassette system and other wireless AM system. The package of UTC7642 is TO-92.

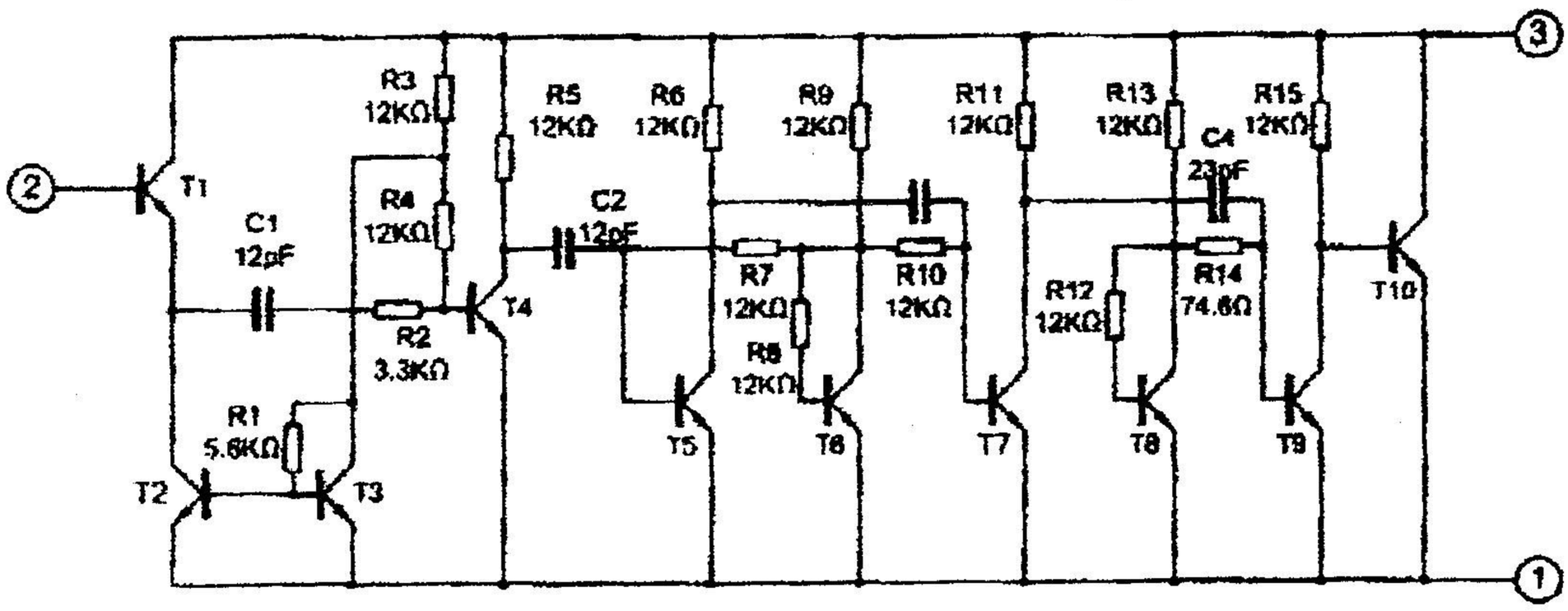
FEATURES

*Low operating voltage: Down to Vcc=1.3V
*Low Quiescent Current:Icco=0.2mA
*Low external component required.



TO-92

EQUIVALENT CIRCUIT



ABSOLUTE MAXIMUM RATINGS (Tested at Ta=25°C,unless otherwise specified)

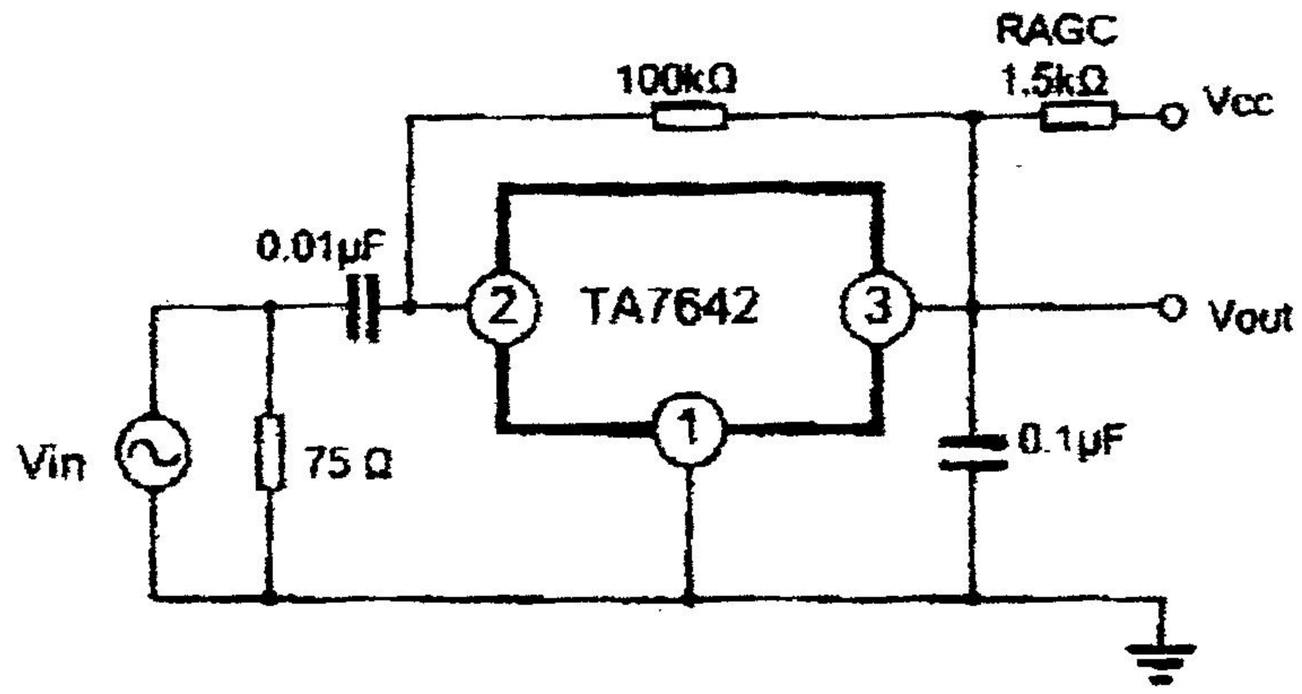
Parameters	Symbols	Min.	Max.	Unit
Supply Voltage	Vcc		6	V
Operating Temperature	Topr	-10	60	°C
Storage temperature	Tstg	-55	150	°C

ELECTRICAL CHARACTERISTICS

(Tested at Ta=25°C, Vcc=1.3V, fm=1kHz, fo=1MHz, MOD=30%, unless other specified)

Parameters	Symbols	Test conditions	Min.	Typ.	Max.	Unit
Supply Voltage	Vcc		1.2	1.3	1.6	V
Quiescent Current	Iccq	Vi=0	0.14	0.20	0.30	mA
Input Resistance	Ri		—	3	—	MΩ
Maximum sensitivity	SM	Vod=3mV	—	600	—	μV
Detector Output Voltage	Vod	Vi=10mV	5	15	30	mV
The Range of AGC	ΔA		—	30	—	dB

TEST CIRCUIT



APPLICATION CIRCUIT