

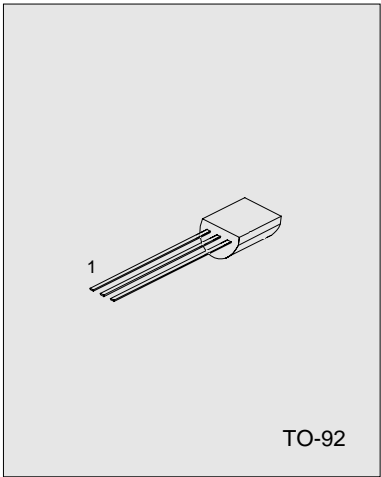
ONE CHIP AM RADIO CIRCUIT

DESCRIPTION

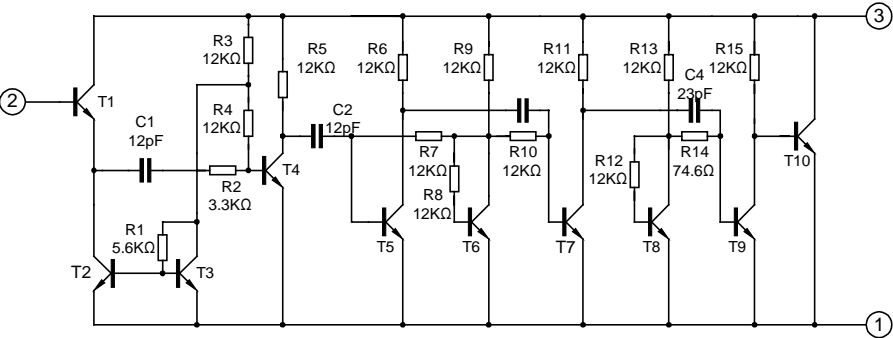
The TA7642 is suitable for low voltage portable Radio, cassette system and other wireless AM system. The package of UTC7642 is TO-92.

FEATURES

- \*Low operating voltage: Down to  $V_{CC}=1.3V$
- \*Low Quiescent Current:  $I_{CCO}=0.2mA$
- \*Low external component required.



EQUIVALENT CIRCUIT



ABSOLUTE MAXIMUM RATINGS (Tested at  $T_a=25^{\circ}C$ , unless otherwise specified)

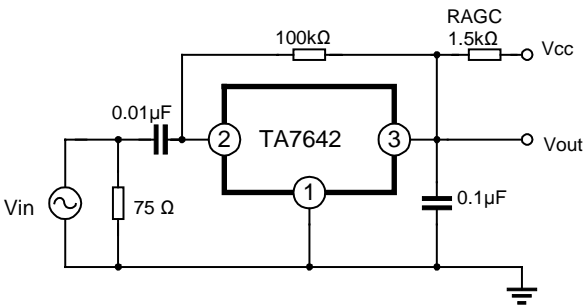
Parameters	Symbols	Min.	Max.	Unit
Supply Voltage	$V_{CC}$		6	V
Operating Temperature	$T_{opr}$	-10	60	$^{\circ}C$
Storage temperature	$T_{STG}$	-55	150	$^{\circ}C$

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

