UTC 7642 LINEAR INTEGRATED CIRCUIT

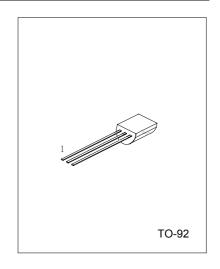
ONE CHIP AM RADIO CIRCUIT

DESCRIPTION

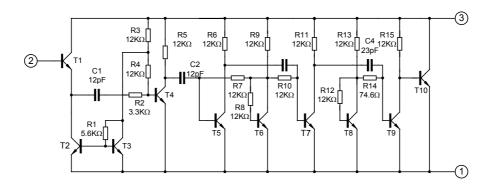
UTC 7642 is suitable for low voltage portable Radio, cassette system and other wireless AM system. The package of UTC7642 is TO-92.

FEATURE

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



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

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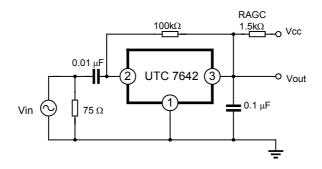
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ELECTRICAL CHARACTERISTICS

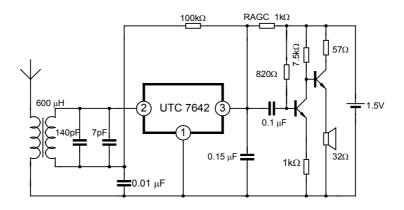
(Tested at Ta=25°C, Vcc=1.3V,fm=1KHZ,fo=1MHZ,MOD=30%, unless other specified)

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	Rı		-	3	-	$M\Omega$
Maximum Sensitivity	SM	VoD=3mV	-	600	-	μV
Detector Output Voltage	Vod	Vı=10mV	5	15	30	mV
The Range of AGC	ΔΑ		-	30	-	dB

TEST CIRCUIT



APPLICATION CIRCUIT



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UTC 7642 LINEAR INTEGRATED CIRCUIT

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