

UTC7316

LINEAR INTEGRATED CIRCUIT

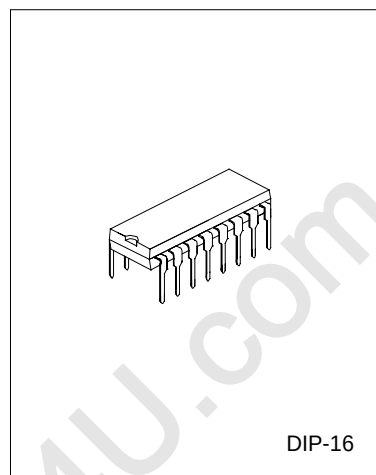
DUAL RECORDING/PLAYBACK PRE-AMPLIFIER IC FOR CASSETTE

DESCRIPTION

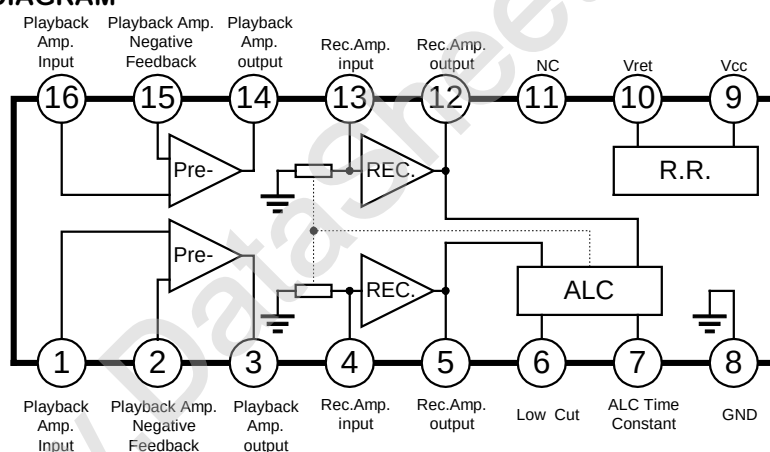
The UTC7316 is an integrated circuit for radio cassette recorder and built-in only fundamental function of rec./playback pre-amp. With ALC function in 2-channel 16-pin DIP plastic package.

FEATURES

- *Built-in ALC LOW CUT function
- *Rec. Amp gain fixed and external parts reduced
- *Wide operating supply voltage range (4V~12V)



BLOCK DIAGRAM



ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Characteristic	Symbol	Value	Unit
Supply Voltage	Vcc	14	V
Supply Current	Icc	30	mA
Power Dissipation	P _D	1,000	mW
Operating Temperature	T _{opr}	-20~+75	°C
Storage Temperature	T _{stg}	-55~+150	°C

RECOMMENDED OPERATING RATINGS (Ta=25°C)

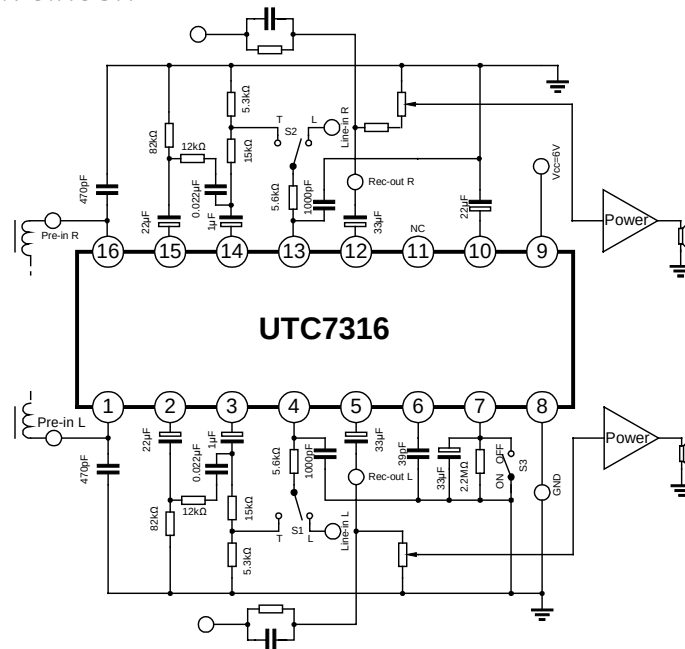
Characteristic	Symbol	Value	Unit
Operating Supply Voltage Range	Vcc	3.5~12	V

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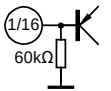
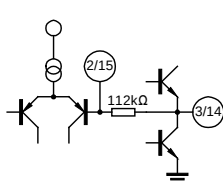
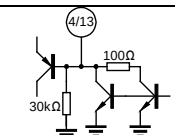
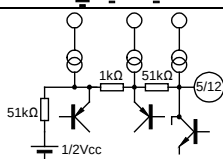
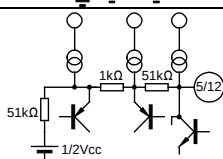
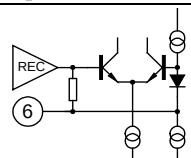
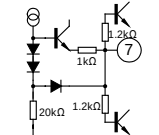
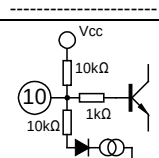
LINEAR INTEGRATED CIRCUIT

(Vcc=6V, f=1KHz, f_{MOD}=1KHz, Ta=25°C, unless otherwise specified)

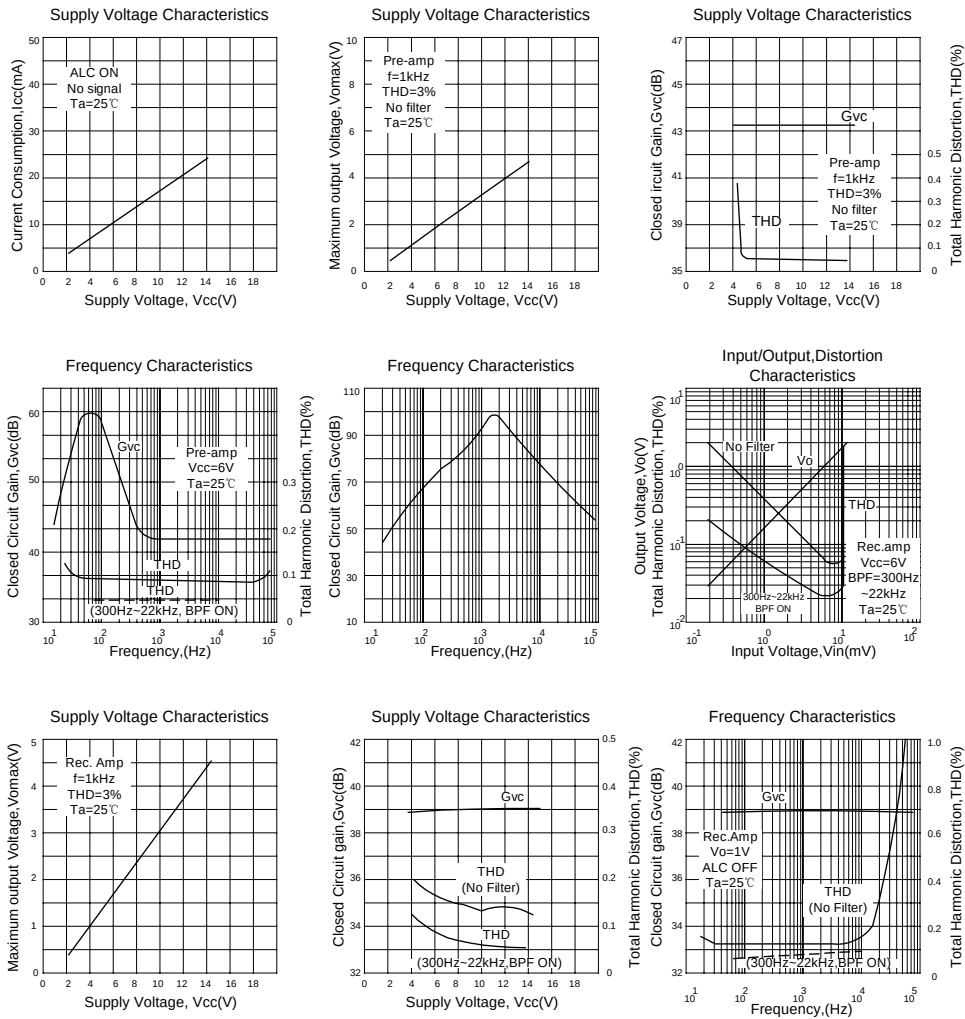
APPLICATION CIRCUIT



PIN DESCRIPTIONS

Pin No.	Pin Name	Typ. Waveform	Description	Equivalent Circuit
1	Ch.1 Playback Amp. Input	 -43.6dBV	Playback amp. Input	
16	Ch.2 Playback Amp. Input			
2	Ch.1 Playback Amp. Negative Feedback	DC 0.7V	Playback amp. feedback	
15	Ch.2 Playback Amp. Negative Feedback			
3	Ch.1 Playback Amp. Output	 0dBV	Playback amp. output	
14	Ch.2 Playback Amp. Output			
4	Ch.1 Rec. Amp. Input	 -39dBV	Rec.amp.input	
13	Ch.2 Rec. Amp. Input			
5	Ch.1 Rec. Amp. Output	 0dBV	Rec.amp.output	
12	Ch.2 Rec. Amp. Output			
6	Low CUT	DC about 2.5V	AGC comparator circuit reference voltage	
7	ALC Time Constant	Follow input signal	Low-pass filter pin	
8	GND	-----	Main circuit GND	-----
9	Vcc	DC 6V	Main circuit +Vcc	-----
10	Vret	DC 3.7V	-----	
11	NC	-----	-----	-----

TYPICAL PERFORMANCE CHARACTERISTICS



TYPICAL PERFORMANCE CHARACTERISTICS (CONTINUED)

