



## A6966

## LINEAR INTEGRATED CIRCUIT

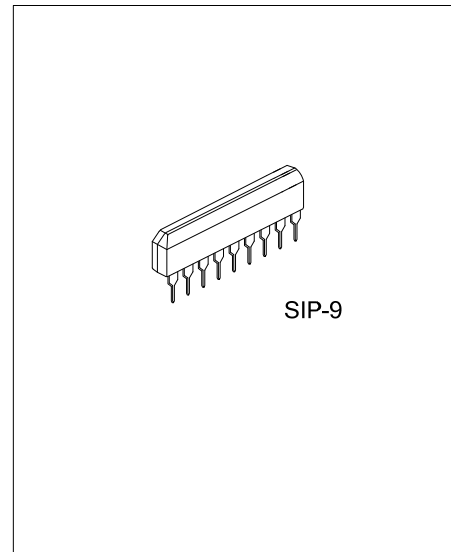
### 5 DOT LED LEVEL METER

#### DESCRIPTION

The UTC **A6966** is designed for 5 LED level meter driver in 9 lead SIP package. It consists of one input amplifier and five comparators for LED level indication.

#### FEATURES

- \* Low Spurious Noise Operation.
- \* Constant Current Output:  $I_{OUT}=8mA$  (Typ.)
- \* Indication Level Steps: 5dB, 5dB, 3dB, 3dB
- \* Wide Operating Supply Voltage Range:  $V_{CC} = 4\sim 12V$
- \* Variable Input Amplifier Gain:  $G_V = 0 \sim 20dB$

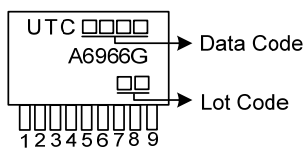


#### ORDERING INFORMATION

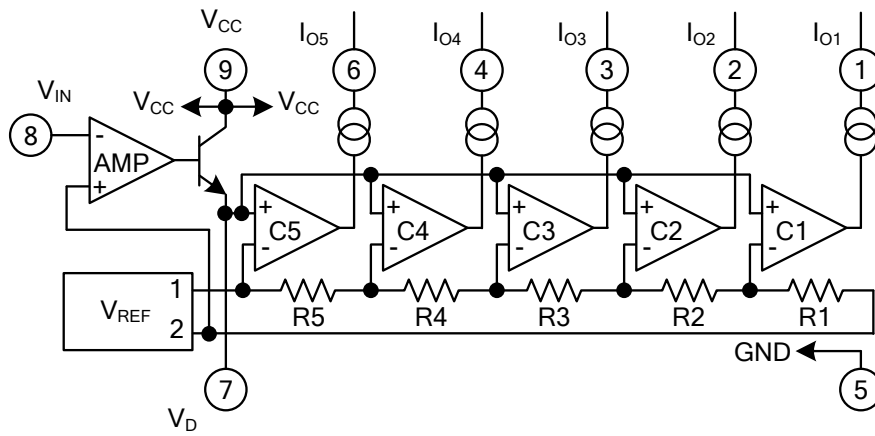
Ordering Number	Package	Packing
A6966G-G09-T	SIP-9	Tube

<p>A6966G-G09-T</p> <p>(1) Packing Type (2) Package Type (3) Green Package</p>	<p>(1) T: Tube (2) G09: SIP-9 (3) G: Halogen Free and Lead Free</p>
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#### MARKING



■ BLOCK DIAGRAM



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■ ABSOLUTE MAXIMUM RATINGS ( $T_A = 25^\circ\text{C}$ , unless otherwise specified)

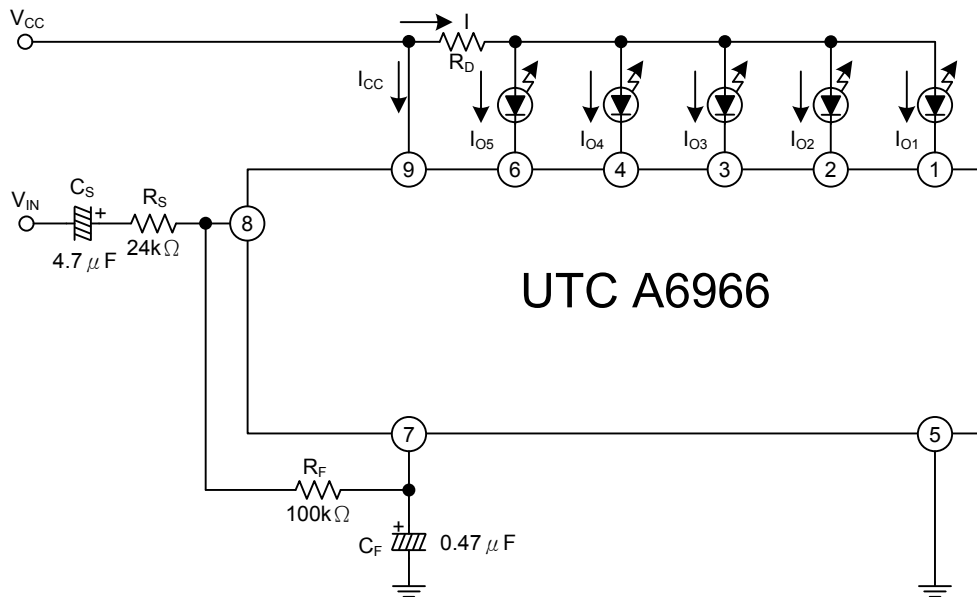
PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	$V_{CC}$	14	V
LED Driving Terminal Voltage	$V_L$	15	V
Power Dissipation	$P_D$	600	mW
Derated above $T_A = 25^\circ\text{C}$		4	mW/ $^\circ\text{C}$
Operating Temperature	$T_{OPR}$	-20 ~ +85	$^\circ\text{C}$
Storage Temperature	$T_{STG}$	-40 ~ +150	$^\circ\text{C}$

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ ELECTRICAL CHARACTERISTICS ( $T_A = 25^\circ\text{C}$ ,  $V_{CC} = 9\text{V}$ ,  $f = 1\text{kHz}$ , unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Quiescent Current	$I_Q$	$V_{IN} = 0\text{V}$		3	5	mA
Output Current	$I_{OUT}$		5	8	10	mA
Output Leak Current	$I_{OUT(OFF)}$				50	$\mu\text{A}$
Sensitivity	$V_{LD5(ON)}$	$R_S = 24\text{k}\Omega$ , $R_F = 100\text{k}\Omega$		230		mV <sub>RMS</sub>
LED Turn-on Input Level	D5	$R_S = 24\text{k}\Omega$ , $R_F = 100\text{k}\Omega$ $I_{OUT} = 1\text{mA}$	-1	0	1	dB
	D4		-4	-3	-2	dB
	D3		-7.5	-6	-4.5	dB
	D2		-13	-11	-9	dB
	D1		-19	-16	-13	dB

### ■ TYPICAL APPLICATION CIRCUIT



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