


UNISONIC TECHNOLOGIES CO., LTD

A6966

LINEAR INTEGRATED CIRCUIT

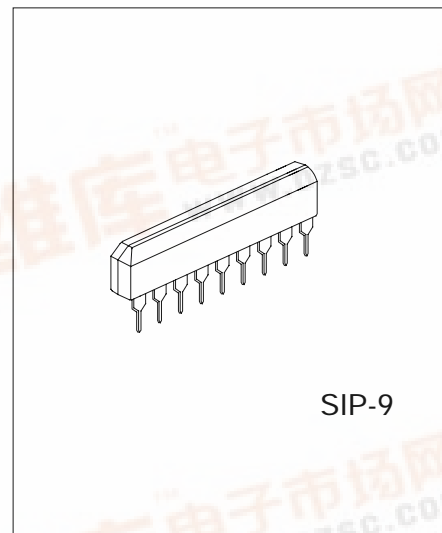
5 DOT LED LEVEL METER

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: $G_V = 0 \sim 20dB$



SIP-9

*Pb-free plating product number: A6966L

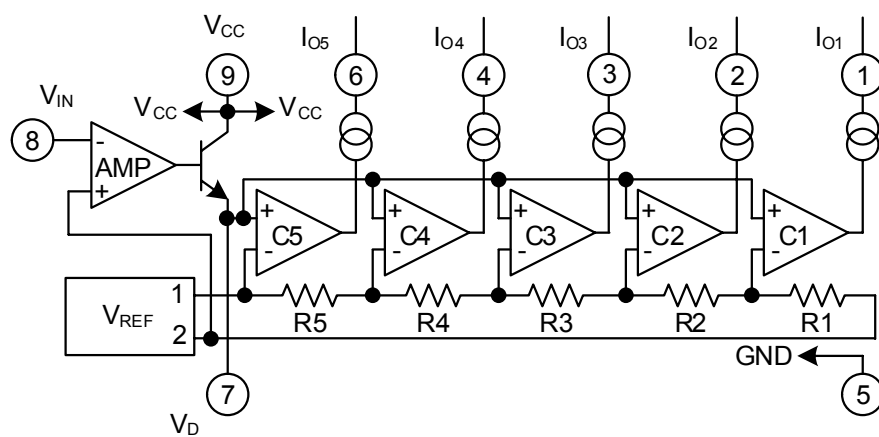
ORDERING INFORMATION

Order Number		Package	Packing
Normal	Lead Free Plating		
A6966-G09-T	A6966L-G09-T	SIP-9	Tube

<p>A6966L-G09-T</p> <pre> ____(1)Packing Type ____(2)Package Type ____(3)Lead Plating </pre>		<p>(1) T: Tube (2) G09: SIP-9 (3) L: Lead Free Plating, Blank: Pb/Sn</p>
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■ BLOCK DIAGRAM



■ ABSOLUTE MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

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

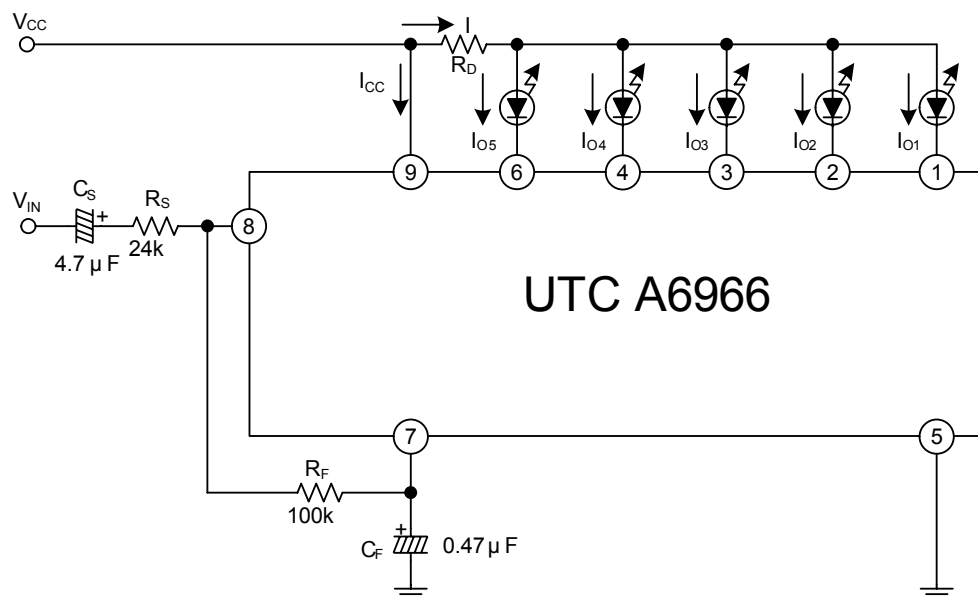
Note 1. Absolute maximum ratings are stress ratings only and functional device operation is not implied. The device could be damaged beyond Absolute maximum ratings.

2. The device is guaranteed to meet performance specifications within 0 ~ +70 operating temperature range and assured by design from -20 ~ +85.

■ 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	μA
Sensitivity	$V_{LD5(ON)}$	$R_S = 24\text{k}\Omega$, $R_F = 100\text{k}\Omega$		230		mV_{RMS}
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	
	D3		-7.5	-6	-4.5	
	D2		-13	-11	-9	
	D1		-19	-16	-13	

■ TYPICAL APPLICATION CIRCUIT



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