

TOY RADIO CONTROL DEMODULATOR

FEATURES

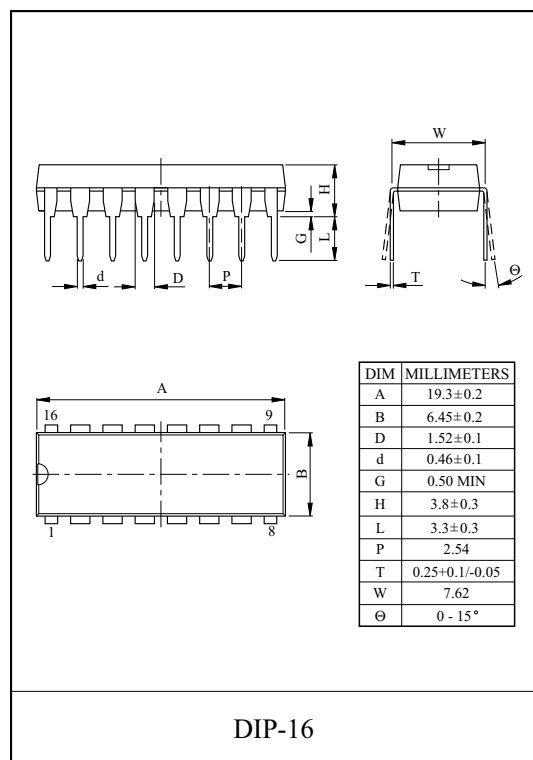
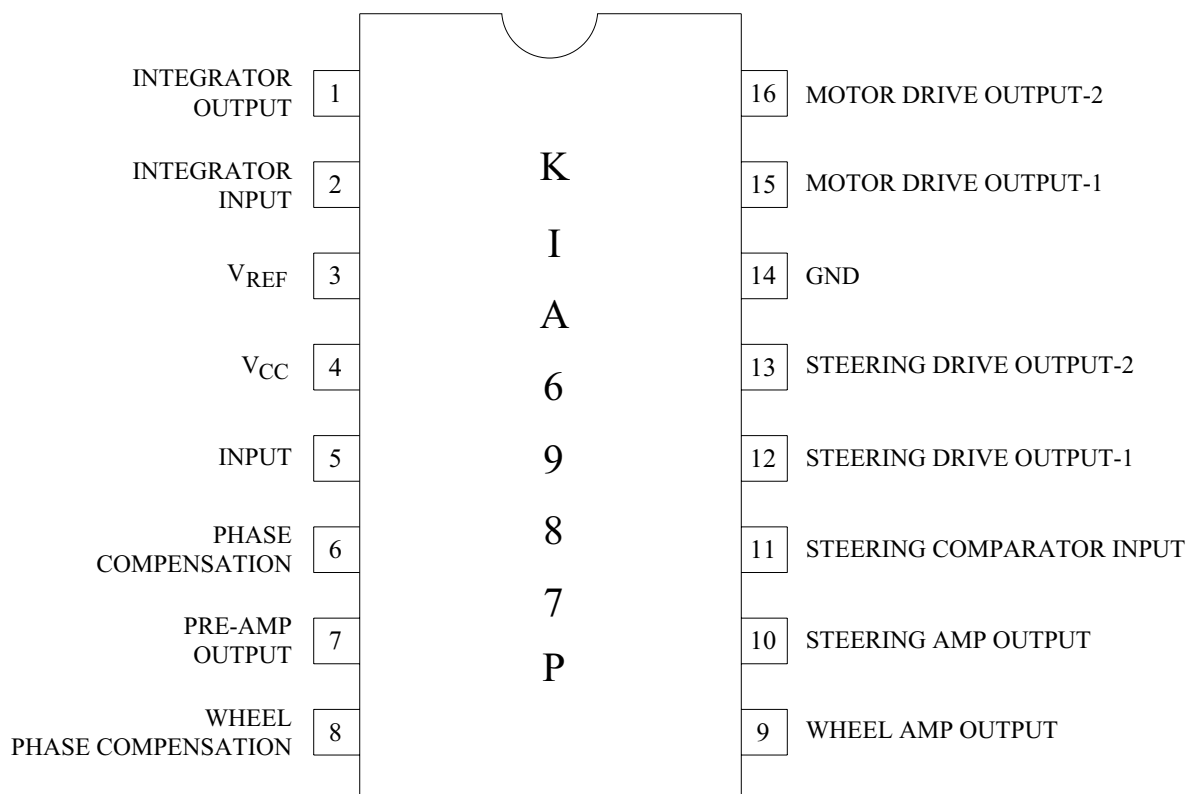
- Includes Regulator, Amp, Integrator.
- Wide Operating Supply Voltage Range. ($V_{CC}=3.5 \sim 12V_{DC}$)
- Low Quiescent Circuit Current.
- Minimum Number of External Parts Required

MAXIMUM RATINGS ($T_a=25^\circ C$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Supply Voltage	V_{CC}	15	V
Power Dissipation (Note)	P_D	700	mW
12, 13, 15, 16 pin Current	I_D	15	mA
12, 13, 15, 16 pin Voltage	V_D	15	V
V_{REF} Output Current	I_O	10	mA
Operating Temperature	T_{opr}	$-20 \sim 75$	$^\circ C$
Storage Temperature	T_{stg}	$-40 \sim \pm 125$	$^\circ C$

Note : Derated above $T_a=25^\circ C$ in the proportion of $6mW/^\circ C$.

PIN CONNECTION (TOP VIEW)



KLA6987P

ELECTRICAL CHARACTERISTICS (Ta=25 °C, V_{CC}=6V)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage Range	V _{CC}	-	3.5	6.0	12.0	V
Referance Output Voltage	V _{ref}	V _{CC} =3.5 ~ 12V	2.6	2.8	3.0	V
Reference Regulation	ΔV _{ref}	I _O =0 ~ 8mA	-	20	-	mV
Quiescent Current	I _{CCQ}	2, 3 Pin OFF	-	-	33	mA
Iout Output Voltage	V ₁₁	V ₃ =3V	1.31	-	1.69	V
MOTOR DRIVE-1 Output Current	I ₁₅	400Hz & Duty=25%, V ₁₅ =GND	5	-	-	mA
MOTOR DRIVE-2 Output Current	I ₁₆	1kHz & Duty=25%, V ₁₆ =GND	5	-	-	mA
STEERING DRIVE-1 Output Current	I ₁₂	400Hz & Duty=25%, V ₁₂ =3.8V	10	-	-	mA
STEERING DRIVE-2 Output Current	I ₁₃	400Hz & Duty=75%, V ₁₃ =3.8V	10	-	-	mA
Input Sensitiving	V _{IN}	-	-	-	10	mV

BLOCK DIAGRAM
/TEST CIRCUIT

