

TOY RADIO CONTROL DEMODULATOR

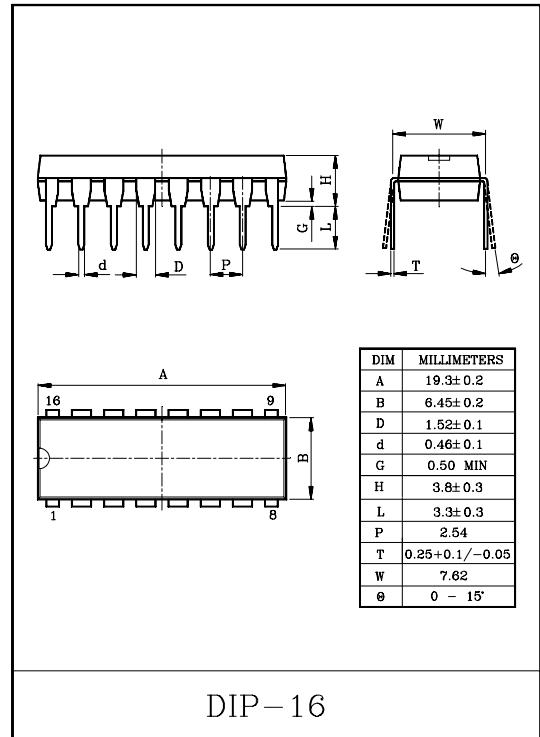
FEATURES

- 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

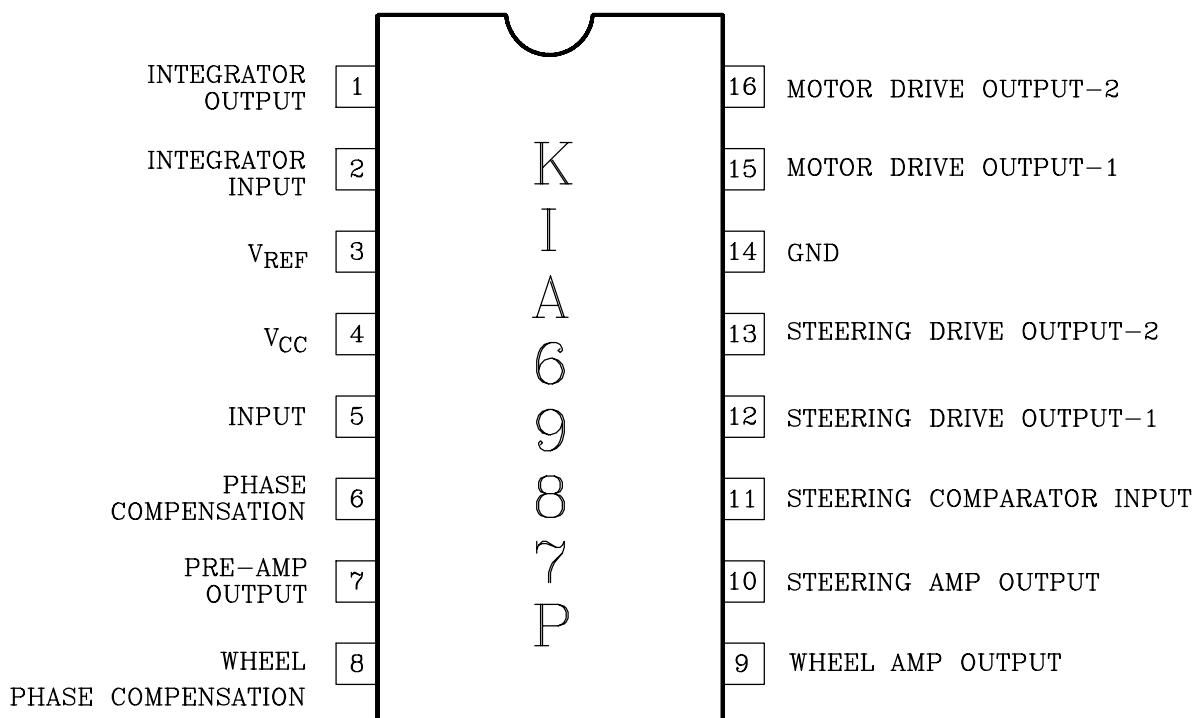
MAXIMUM RATINGS ($T_a=25^\circ C$)

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}	-20~75	°C
Storage Temperature	T_{stg}	-40~±125	°C

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



PIN CONNECTION (TOP VIEW)



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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage Range	V _{OPR}	-	3.5	6.0	12.0	V
Reference 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

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BLOCK DIAGRAM / TEST CIRCUIT

