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NTE1425 Integrated Circuit Capstan Servo Control Circuit for VCR

Features:

- Phase Control Circuit
- Speed Control Circuit
- Capstan FG Divider Ratio Change Circuit
- Sample Hold System Speed Control
- Supply Voltage, Either 9V or 12V

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$, unless otherwise specified)

Supply Voltage, V_{CC} 14V
 Power Dissipation, P_D 470mW
 Operating Temperature Range, T_{opg} -20° to $+70^\circ\text{C}$
 Storage Temperature Range, T_{stg} -40° to $+150^\circ\text{C}$

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 12\text{V}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Circuit Current	I_1		16	-	34	mA
Sensitivity (PG Amp In)	$S_{(1)}$		50	-	-	mV _{o-p}
(In)	$S_{(2)}$		7	-	-	V _{o-p}
Reference Voltage	$V_{REF(1)}$		2.7	-	3.7	V
Voltage High Level (S/H1)	$V_{OH(1)}$		9	-	-	V
Voltage Low Level (S/H1)	$V_{OL(1)}$		-	-	600	mV
Sensitivity Output (FG Amp In)	$S_{(3)}$		100	-	-	mV _{p-p}
(FF 2 Switch)	$S_{(4)}$		5	-	-	V
Reference Voltage	$V_{REF(2)}$		2.7	-	3.7	V
Voltage High Level (S/H2)	$V_{OH(2)}$		9	-	-	V
Voltage Low Level (S/H2)	$V_{OL(2)}$		-	-	600 mV	

Pin Connection Diagram

