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## NTE1725 Integrated Circuit Color TV Picture IF System

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

Supply Voltage, $V_{CC}$ .....	15V
Output Current, $I_O$ .....	4mA
Power Dissipation, $P_T$ .....	745mW
Operating Ambient Temperature Range, $T_{opr}$ .....	$-20^\circ$ to $+65^\circ\text{C}$
Storage Temperature Range, $T_{stg}$ .....	$-55^\circ$ to $+125^\circ\text{C}$

**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	$I_{CC}$		–	40	57	mA
Input Voltage	$V_{IN}$		35	40	45	dB $\mu$
Max. Input Voltage	$V_{i\ max}$		93	98	–	dB $\mu$
Differential Gain	DG		–	3	–	%
Differential Phase	DP		–	2.5	–	%
Video Input Voltage	$V_{video}$	$m = 87.5\%$	1.98	2.32	2.65	$V_{p-p}$
Output Sync Level	$V_{sync}$		5.1	5.5	5.9	V
Frequency Characteristics	fc	–3dB	6.0	8.0	–	MHz
AFT Min. Voltage	$V_{AFT\ min}$		–	–	1.0	V
AFT Max. Voltage	$V_{AFT\ max}$		11.0	–	–	V
RF Max. Voltage	$V_{RF\ max}$		–	–	9.0	V
RF Min. Voltage	$V_{RF\ min}$		–	–	1.0	V



**Pin Connection Diagram**  
(Front View)



