

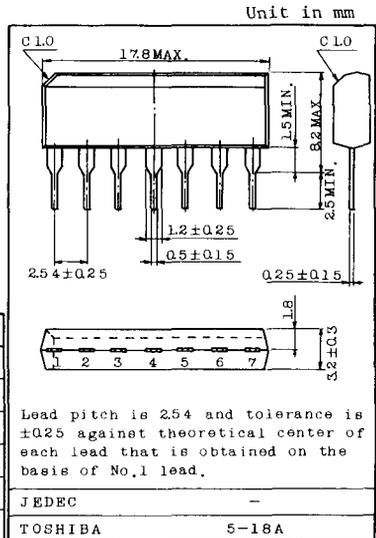
#### 2-INPUT SWITCH

- Suitable for Audio and Video Signal
- Low Current Operation (Typ. 4.8mA)

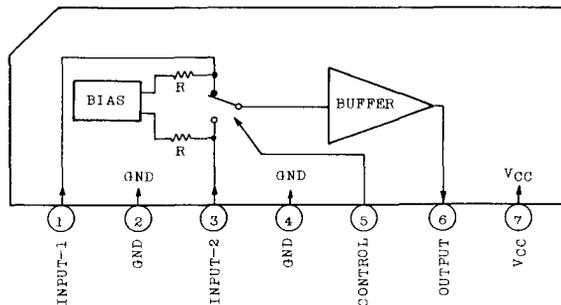
#### MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Supply Voltage	V <sub>CC</sub>	14	V
Signal Level at Input Pin	e <sub>in</sub>	5	V <sub>p-p</sub>
Input Voltage at Control Pin	V <sub>IN</sub>	-0.3~V <sub>CC</sub> +0.3	V
Power Dissipation (Note)	P <sub>D</sub>	400	mW
Operating Temperature	T <sub>opr</sub>	-10 ~ 80	°C
Storage Temperature	T <sub>stg</sub>	-50 ~ 125	°C

Note : Derated above Ta=25°C in the proportion of 4mW/°C.



#### BLOCK DIAGRAM



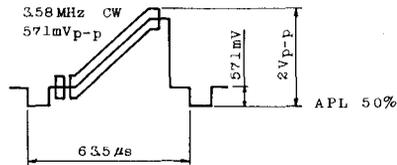


#### ELECTRICAL CHARACTERISTICS ( $V_{CC}=9V$ , $T_a=25^{\circ}C$ )

CHARACTERISTIC	SYMBOL	TEST CIR-CUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage	$V_{CC}$	-	-	8.0	9.0	10.0	V
Total Current	$I_{CC}$	-	$S_1=S_2=S_3=2$	3.8	4.8	6.2	mA
Frequency Response	$G_{F1}$	-	$v_i=2.5V_{p-p}$ $v_o(20Hz)/v_o(100kHz)$	-	-	$\pm 0.5$	dB
	$G_{F2}$	-	$v_i=2.0V_{p-p}$ $v_o(5MHz)/v_o(100kHz)$				
Insertion Loss	$G_L$	-	$v_i=2.5V_{p-p}$ , 100kHz $v_o/v_i$	-0.5	-0.3	-	dB
Distortion	THD	-	$v_i=2.5V_{p-p}$ , 1kHz	-	0.2	0.5	%
Differential Gain	DG	-	$v_i=$ Input Waveform 1	-	0.5	-	%
Differential Phase	DP	-	$v_i=$ Input Waveform 1	-	0.5	-	deg
Output Off Set Voltage	$V_{OFF}$	-	$S_1=S_2=2$ The difference of output DC voltage during a) $S_3=1$ and b) $S_2=2$	-	0	$\pm 15$	mV
Cross Talk	$v_{CR}$	-	$v_i=2.0V_{p-p}$ , 4.43MHz $v_o/v_i$ Measure in following two Modes a) $S_1=S_3=1$ , $S_2=1$ b) $S_1=S_3=2$ , $S_2=2$	-	-70	-60	dB
SW Control Voltage	$V_{CON}$	-	$S_1=2$ , $S_2=S_3=1$ The voltage of $V_C$ when output turn to off	1.7	2.2	2.7	V
Input Impedance	$R_i$	-	-	-	15	-	k $\Omega$
Output Impedance	$R_o$	-	-	-	10	-	$\Omega$

Note : If not specified the setting of switches, measure in the following two modes.  
 a)  $S_1=1$ ,  $S_2=S_3=2$     b)  $S_1=2$ ,  $S_2=S_3=1$

#### INPUT WAVEFORM 1



#### TEST CIRCUIT

