

AN6308, AN6308S

Analog Switch ICs for VCR

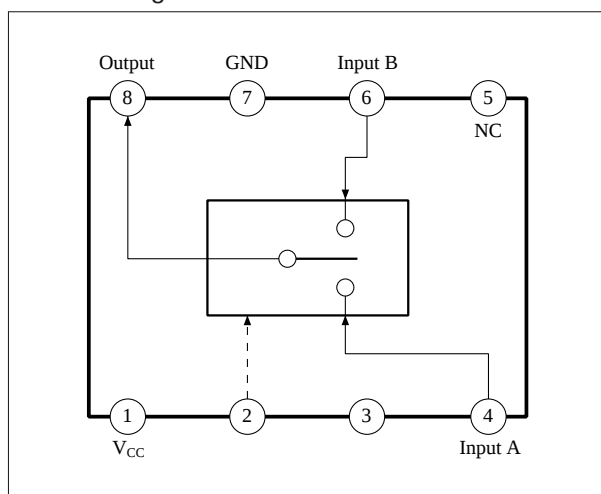
Overview

The AN6308 and the AN6308S are integrated circuits designed for video band analog switching.

Features

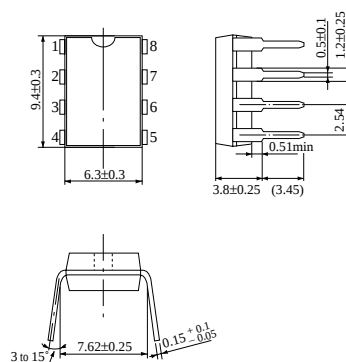
- Good frequency response : 10MHz flat
- High speed switching : 70ns typ.
- Low power consumption : 13mW typ.
- Supply voltage : 5V

Block Diagram



AN6308

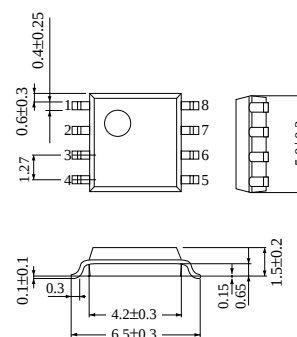
Unit : mm



8-Pin DIL Plastic Package (DIP008-P-0300B)

AN6308S

Unit : mm



8-Pin PANAFLAT Package (SOP008-P-0225)

Pin Descriptions

Pin No.	Pin name
1	V _{CC}
2	Select
3	Bias
4	Input A
5	NC
6	Input B
7	GND
8	Output

■ Absolute Maximum Ratings (Ta = 25°C)

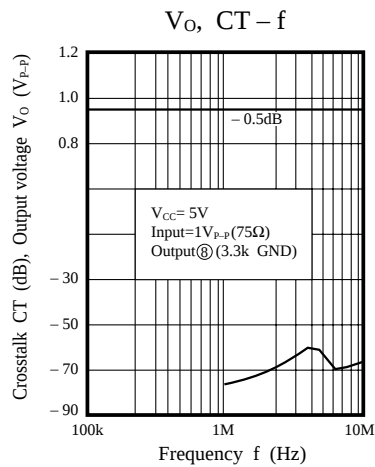
Parameter		Symbol	Rating	Unit
Supply voltage		V_{CC}	6.0	V
Power dissipation		P_D	30	mW
Operating ambient temperature		T_{opr}	- 20 to + 70	°C
Storage temperature	AN6308	T_{stg}	- 55 to + 150	°C
	AN6308S		- 55 to + 125	

■ Electrical Characteristics ($V_{CC} = 5V$, $T_a = 25^{\circ}C \pm 2^{\circ}C$)

Parameter	Symbol	Condition	min	typ	max	Unit
Circuit current	I_1		1.6	—	3.7	mA
Cross talk	CT_8	$f = 4MHz/1V_{p-p}$	—	—	-50	dB
SW level difference	$V_O (offset)$		—	—	10	mV
Select sensitivity (A)	$S_{(2) 4}$		—	—	1.0	V
Select sensitivity (A)	$S_{(2) 6}$		4.0	—	—	V

Note) Operating supply voltage range V_{CC} (crp.) = 4.5V to 5.5V

■ Characteristics Curve



■ Application Circuit

