

AN5371NS, AN5379NS

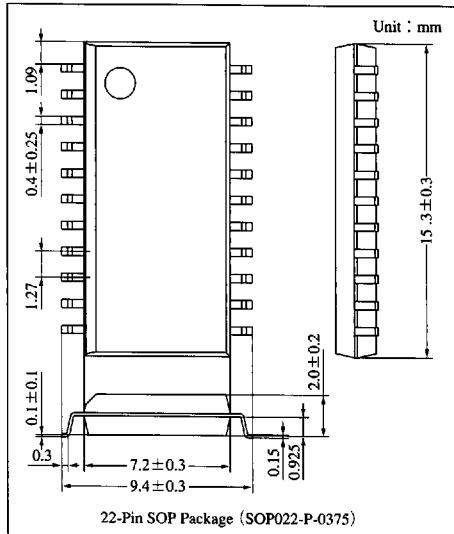
RGB Signal Output IC for LCD TV

■ Overview

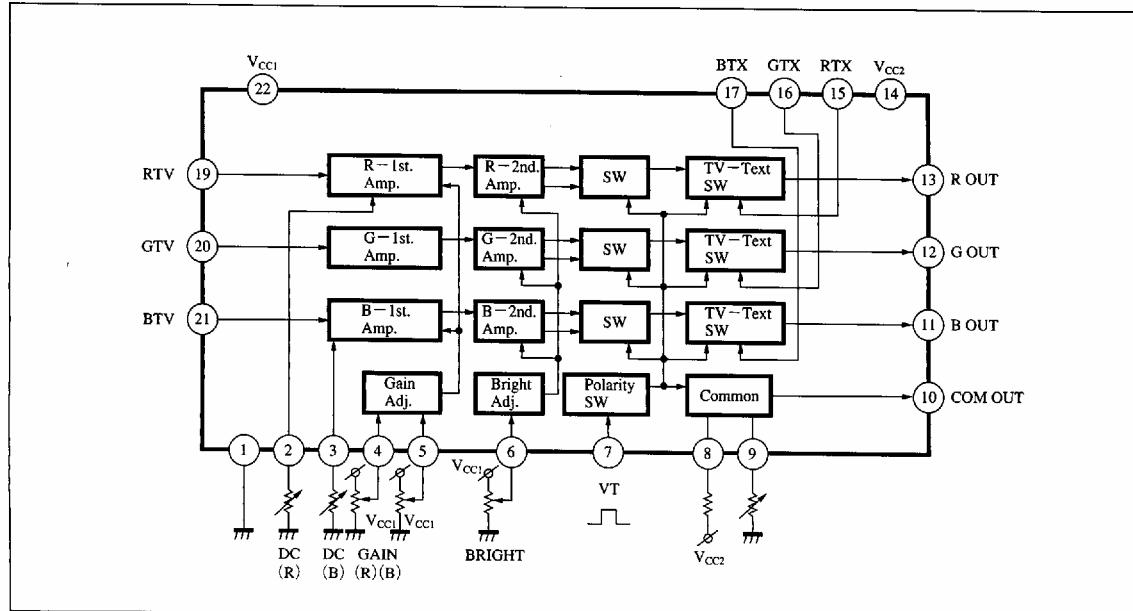
The AN5371NS and the AN5379NS are RGB signal output ICs for LCD TV. They can also output texts to be displayed. They can be directly connected to a signal processor IC of AN5372S. The AN5371NS is normal black, and the AN5379NS is normal white. Select one of them according to the LCD-type of a TV.

■ Features

- Low operating voltage : $V_{CC1}=5V$, and $V_{CC2}=10V$ typ.
- Including a brightness control circuit
- Gain and DC adjustment available for R and B signals (G signal is the reference)
- Responding to text input (RGB)
- Common-voltage output



■ Block Diagram



■ Pin Descriptions

Pin No.	Pin name	Pin No.	Pin name
1	GND	12	G output
2	R adjustment	13	R output
3	B adjustment	14	Power supply ($V_{CC2}=10V$)
4	R voltage gain adj.	15	R_{TX} input
5	B voltage gain adj.	16	G_{TX} input
6	Brightness adjustment	17	B_{TX} input
7	Polarity switching	18	NC
8	Common voltage high level input	19	R input
9	Common voltage low level input	20	G input
10	Common voltage output	21	B input
11	B output	22	Power supply ($V_{CC1}=5V$)

■ Absolute Maximum Ratings

Parameter	Symbol	Rating	Unit
Supply voltage	V_{CC}	$V_{22}=5.5$	V
		$V_{14}=11.0$	
Supply current	I_{CC}	$I_{22}=5$	mA
		$I_{14}=20$	
Power dissipation	P_D	247.5 *	mW
Operating ambient temperature ^{Note)}	T_{opr}	-20 to +70	°C
Storage temperature ^{Note)}	T_{stg}	-55 to +125	°C

Note) $T_a=25^\circ\text{C}$ except operating ambient temperature and storage temperature.

* For AN5371NS, the value at $P_D=5000\text{mW}$

■ Recommended Operating Range ($T_a=25^\circ\text{C}$)

Parameter	Symbol	Range	
Operating supply voltage range	V_{CC}	V_{22}	4.55V to 5.45V
		V_{14}	9.1V to 10.9V *

* For AN5371NS, the value at $V_{14}=9.5$ to 10.9V