

**SANYO**

No.2745A

**LA7222****2-Channel 2-Position AV Switch  
for VCR / Audio Use****Features**

- The LA7222 is a 2-channel 2-position high-performance analog switch having wide application from audio band to video band.

**Maximum Ratings at Ta = 25°C**

			unit
Maximum Supply Voltage	V <sub>CC</sub> max	15	V
Allowable Power Dissipation	P <sub>d</sub> max	350	mW
Operating Temperature	T <sub>opr</sub>	-20 to +65	°C
Storage Temperature	T <sub>stg</sub>	-55 to +125	°C

**Operating Conditions at Ta = 25°C**

			unit
Recommended Supply Voltage	V <sub>CC</sub>	12	V
Operating Voltage Range	V <sub>CC</sub> op	8 to 13	V

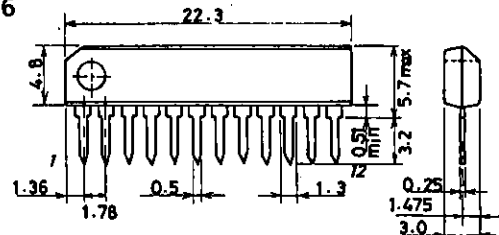
**Operating Characteristics at Ta = 25°C, V<sub>CC</sub> = 12V**

			min	typ	max	unit
Current Dissipation	I <sub>CC</sub>	No input	12	17	22	mA
Total Harmonic Distortion	THD	R <sub>g</sub> = 600Ω, V <sub>IN</sub> = 4.5V <sub>p-p</sub> , f = 1kHz	0.007	0.1		%
Output Noise Voltage	V <sub>ON</sub>	R <sub>g</sub> = 600Ω, DIN AUDIO FILTER (20Hz to 20kHz)	-110	-100		dBs
Crosstalk (ch-1)	CR1	R <sub>g</sub> = 50Ω (no input side R <sub>g</sub> = 500Ω) V <sub>IN</sub> = 2V <sub>p-p</sub> , f = 3.58MHz	-57	-62		dB
Crosstalk (ch-2)	CR2	R <sub>g</sub> = 50Ω (no input side R <sub>g</sub> = 500Ω) V <sub>IN</sub> = 2V <sub>p-p</sub> , f = 3.58MHz	-52	-57		dB
Maximum Input Voltage	V <sub>IN</sub>	R <sub>g</sub> = 600Ω, f = 1kHz, THD = 1%	5.0			V <sub>p-p</sub>
2nd Harmonic	H <sub>2</sub>	R <sub>g</sub> = 50Ω, V <sub>IN</sub> = 4V <sub>p-p</sub> , f = 1MHz	-46	-55		dB
3rd Harmonic	H <sub>3</sub>	R <sub>g</sub> = 50Ω, V <sub>IN</sub> = 4V <sub>p-p</sub> , f = 1MHz	-46	-55		dB
Input Impedance	z <sub>in</sub>			10		kΩ
Output Impedance	z <sub>o</sub>			30	60	Ω
Switch A Input Hold Voltage	V <sub>CA</sub>	Pin 2, pin 4 DC	3.8		V <sub>CC</sub>	V
Switch B Input Hold Voltage	V <sub>CB</sub>	Pin 2, pin 4 DC	0		2.0	V
Output DC Offset Voltage	ΔV <sub>ODC</sub>	Output voltage difference at the time of changeover from switch A to B, and vice versa	-50	0	+50	mV
Crosstalk between Channels	CRch	R <sub>g</sub> = 500Ω, R <sub>L</sub> = ∞ Other channel input R <sub>g</sub> = 50Ω, V <sub>IN</sub> = 2V <sub>p-p</sub> , f = 3.58MHz	-58	-63		dB

**Package Dimensions**

(unit : mm)

3116



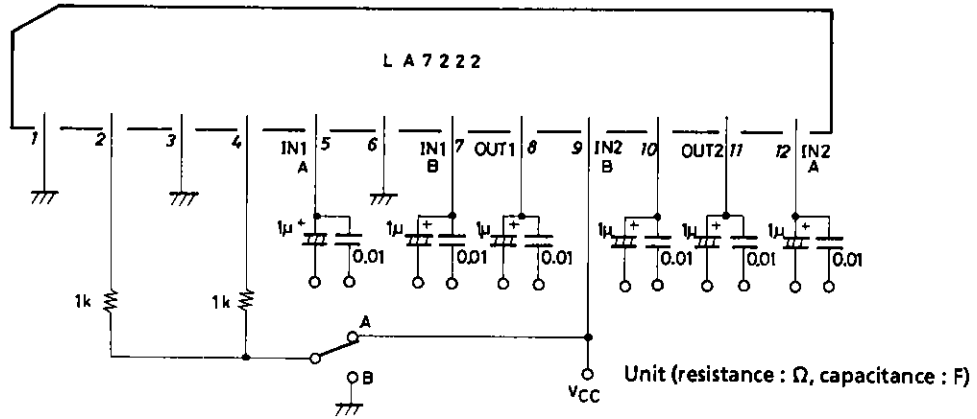
SANYO : SIP12S

**SANYO Electric Co., Ltd. Semiconductor Business Headquarters**

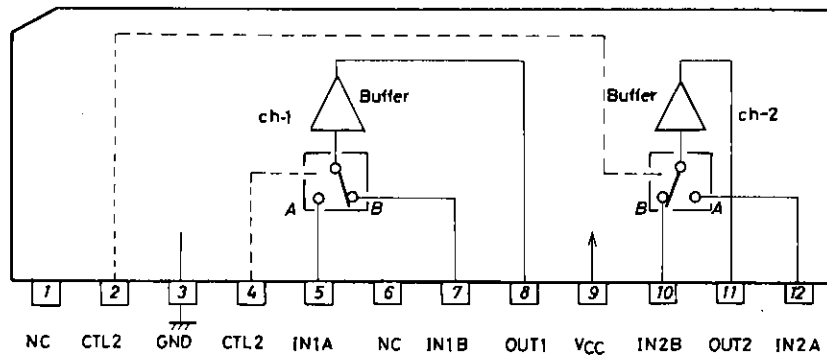
TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110 JAPAN

# LA7222

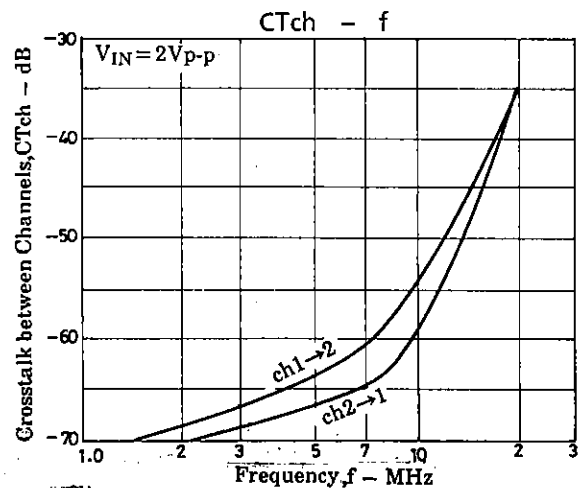
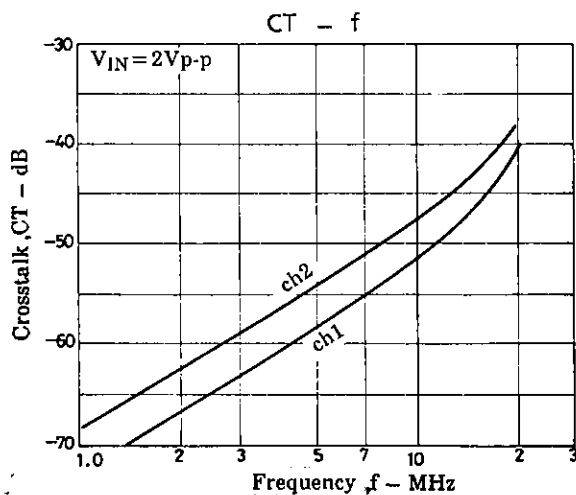
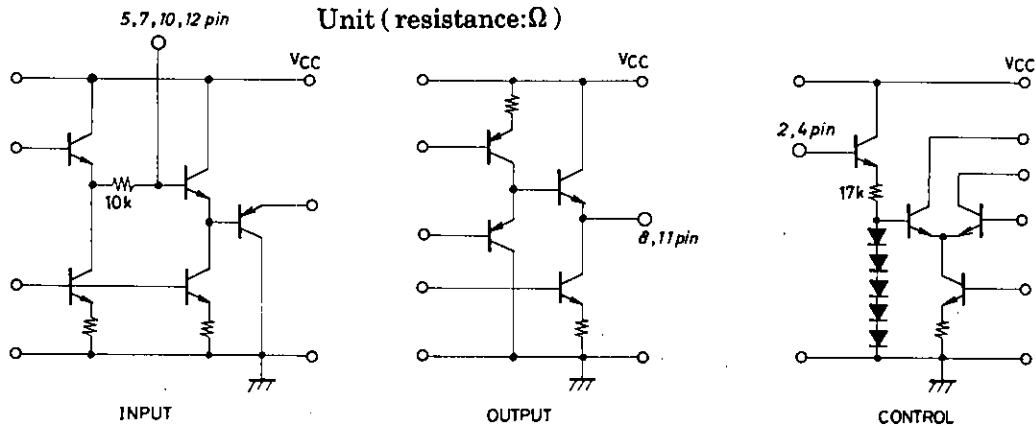
## Test Circuit

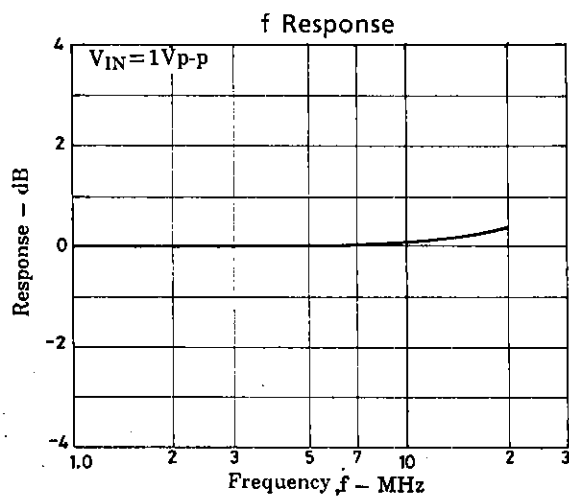
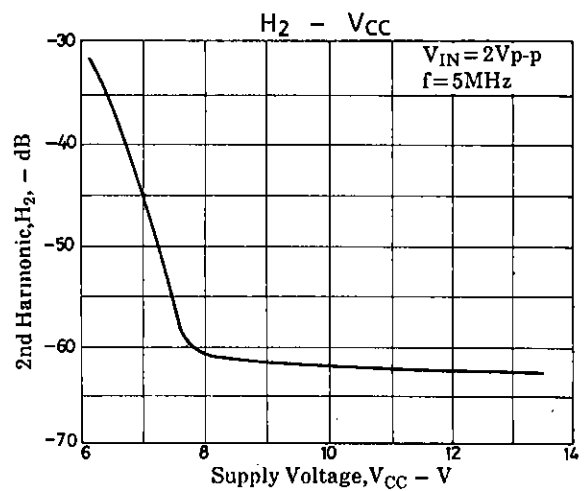
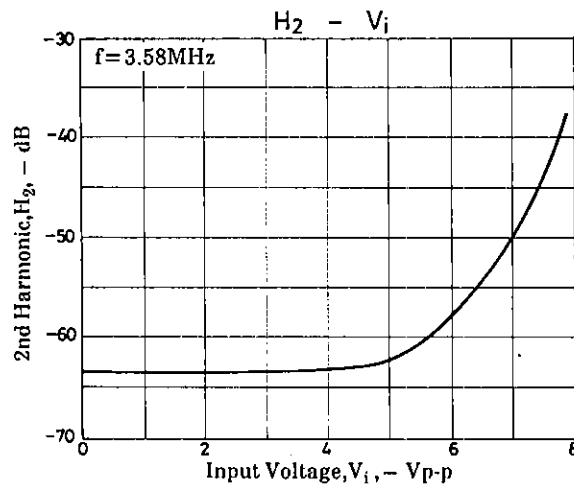
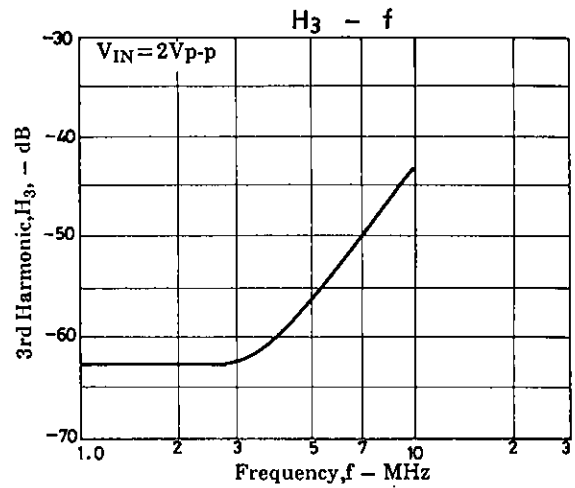
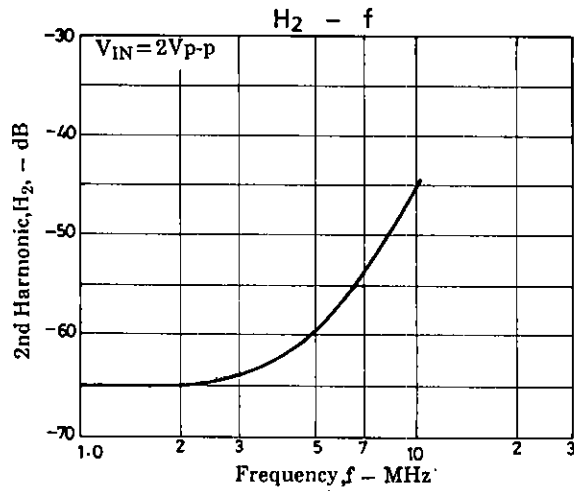


## Equivalent Circuit Block Diagram



## Input/Output Equivalent Circuit





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