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Ordering number : EN 2745A

Monolithic Linear IC

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_{CC} max		15	V
Allowable Power Dissipation	Pd max	Ta = 65°C	350	mW
Operating Temperature	Topr		−20 to +65	°C
Storage Temperature	Tstg		−55 to +125	°C

Operating Conditions at Ta = 25°C

			unit
Recommended Supply Voltage	V_{CC}	12	V
Operating Voltage Range	V_{CC} op	8 to 13	V

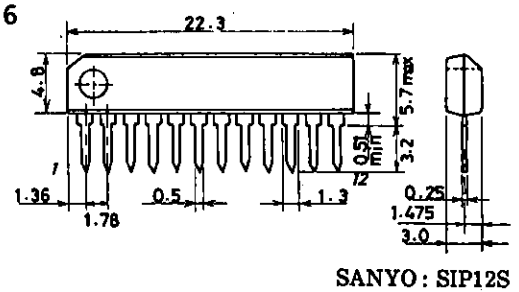
Operating Characteristics at Ta = 25°C, V_{CC} = 12V

			min	typ	max	unit
Current Dissipation	I_{CC}	No input	12	17	22	mA
Total Harmonic Distortion	THD	Rg = 600Ω, V_{IN} = 4.5Vp-p, f = 1kHz		0.007	0.1	%
Output Noise Voltage	V_{ON}	Rg = 600Ω, DIN AUDIO FILTER (20Hz to 20kHz)		−110	−100	dBs
Crosstalk (ch-1)	CR1	Rg = 50Ω (no input side Rg = 500Ω) V_{IN} = 2Vp-p, f = 3.58MHz	−57	−62		dB
Crosstalk (ch-2)	CR2	Rg = 50Ω (no input side Rg = 500Ω) V_{IN} = 2Vp-p, f = 3.58MHz	−52	−57		dB
Maximum Input Voltage	V_{IN}	Rg = 600Ω, f = 1kHz, THD = 1%	5.0			Vp-p
2nd Harmonic	H_2	Rg = 50Ω, V_{IN} = 4Vp-p, f = 1MHz	−46	−55		dB
3rd Harmonic	H_3	Rg = 50Ω, V_{IN} = 4Vp-p, f = 1MHz	−46	−55		dB
Input Impedance	z_{in}			10		kΩ
Output Impedance	z_o			30	60	Ω
Switch A Input Hold Voltage	V_{CA}	Pin 2, pin 4 DC	3.8		V_{CC}	V
Switch B Input Hold Voltage	V_{CB}	Pin 2, pin 4 DC	0		2.0	V
Output DC Offset Voltage	ΔV_{ODC}	Output voltage difference at the time of changeover from switch A to B, and vice versa	−50	0	+50	mV
Crosstalk between Channels	CRch	Rg = 500Ω, R_L = ∞ Other channel input Rg = 50Ω, V_{IN} = 2Vp-p, f = 3.58MHz	−58	−63		dB

Package Dimensions

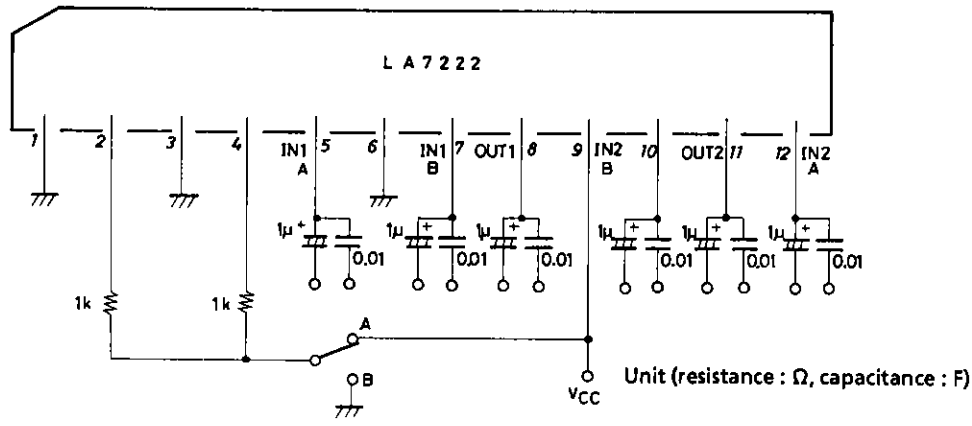
(unit :mm)

3116

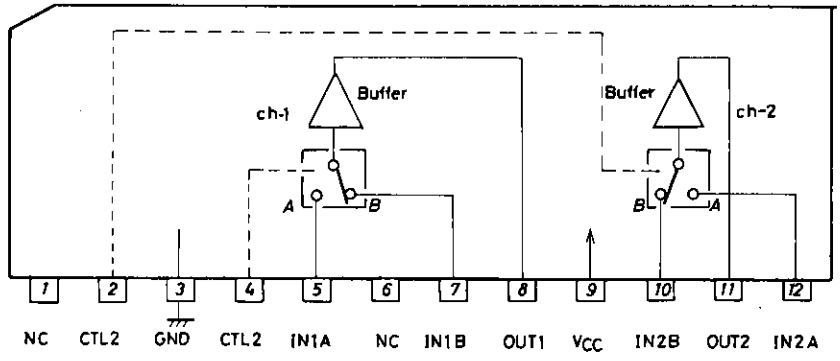


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Test Circuit

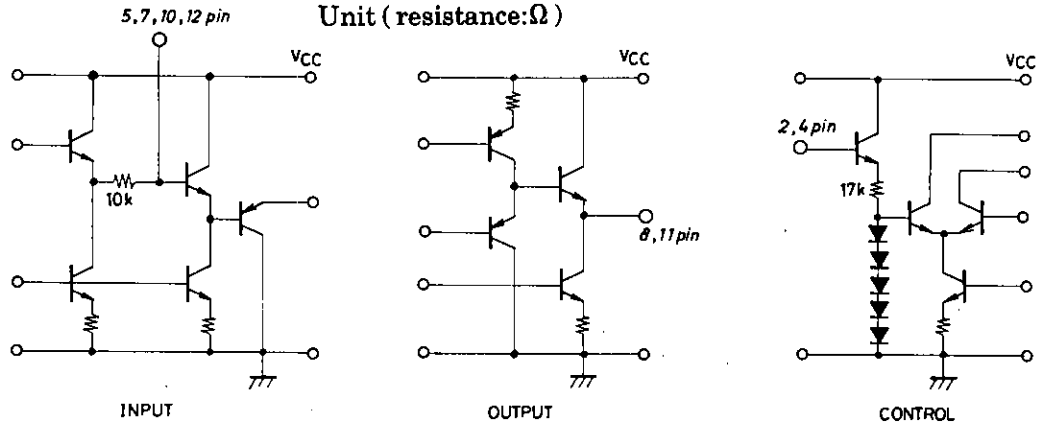


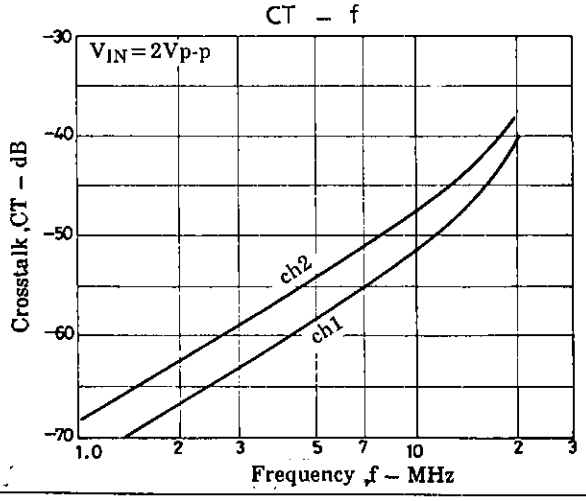
Equivalent Circuit Block Diagram

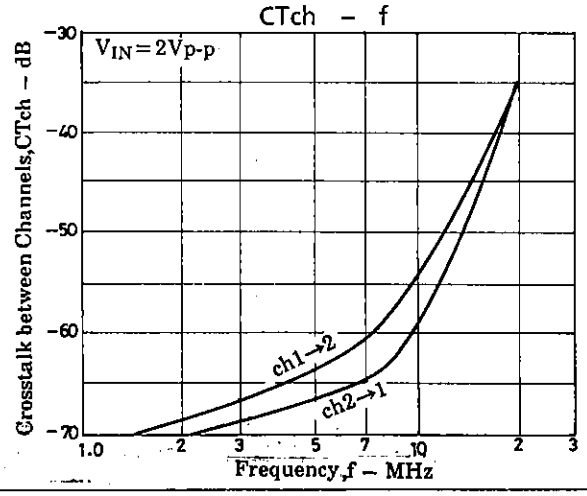


Input/Output Equivalent Circuit

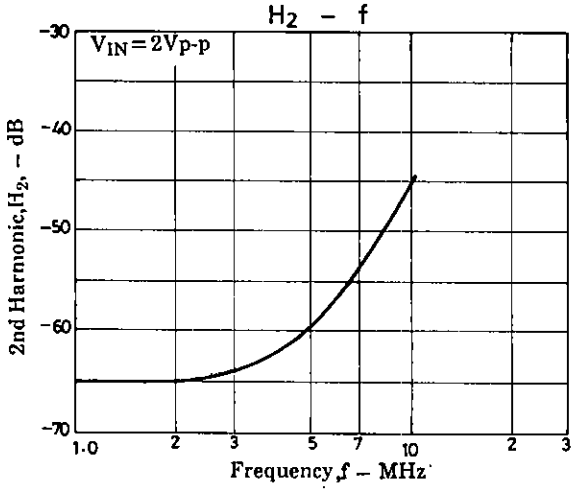
Unit (resistance:Ω)



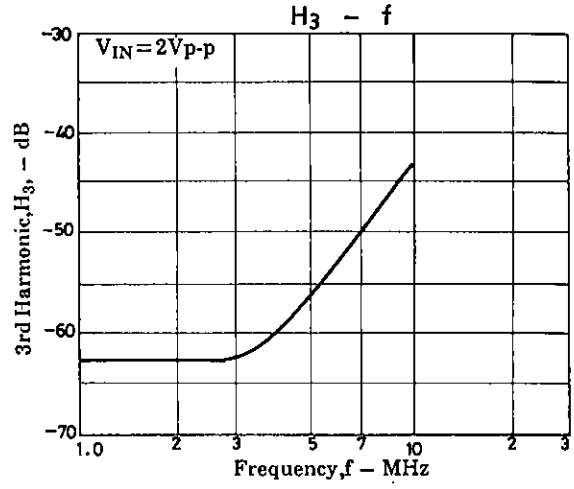




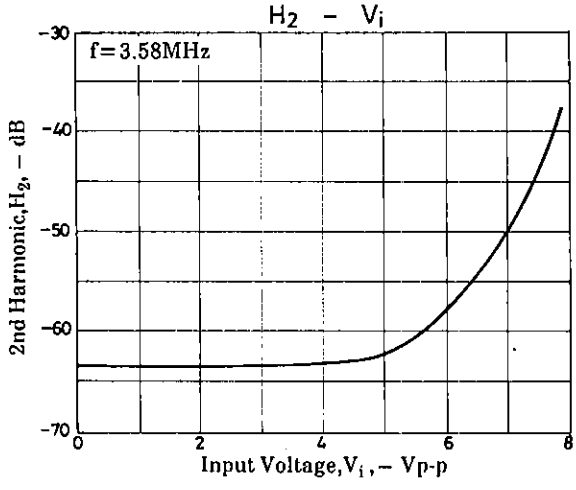
H_2 – f



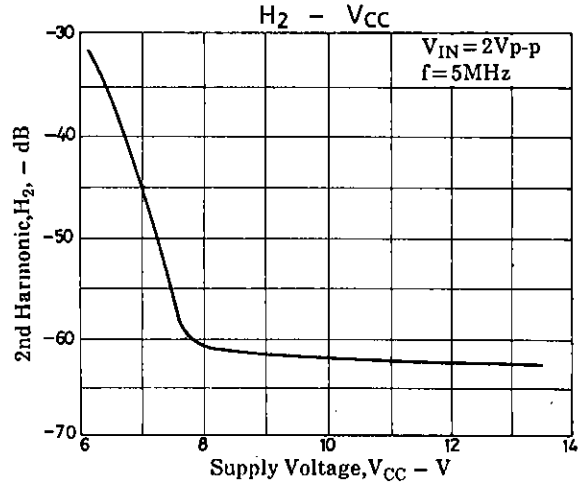
H_3 – f



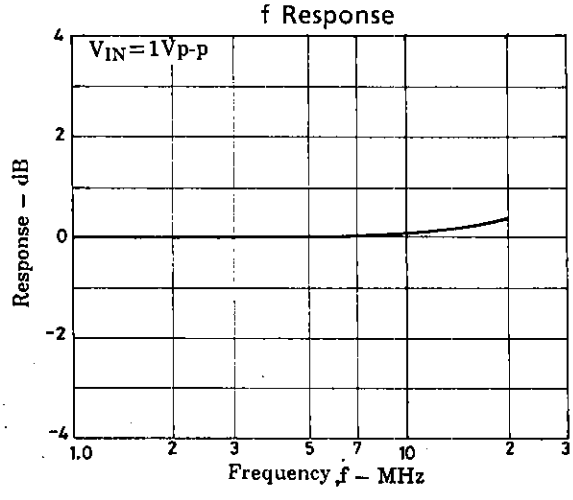
H_2 – V_i



H_2 – V_{CC}



f Response



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