Monolithic Linear IC



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 Maximum Supply Voltage Allowable Power Dissipation Operating Temperature Storage Temperature	V _{CC} Pd r Top Tstį	r -	20 to 55 to -		unit V mW °C °C	
Operating Conditions at Ta=25°C					unit	
Recommended Supply Voltage	v_{cc}	5		12	v	
Operating Voltage Range	V _{CC} op		8 to 13		V	
Operating Characteristics at $Ta = 25^{\circ}C$, $V_{CC} = 12V$ min					max	unit
Current Dissipation	I _{CC}	No input	12	typ 17	22	mA
Total Harmonic Distortion	THD	$Rg = 600\Omega$, $V_{IN} = 4.5Vp-p$, $f = 1kHz$	12	0.007	0.1	
Output Noise Voltage	V _{ON}	$R_g = 600\Omega$, DIN AUDIO FILTER			-100	dBs
	· ON	(20Hz to 20kHz)		-110	100	ubs
Crosstalk (ch-1)	CR1	$Rg = 50\Omega$ (no input side $Rg = 500\Omega$)	-57	-62		dB
		$V_{IN} = 2V_{p-p,f} = 3.58MH_z$				
Crosstalk (ch-2)	CR2	$Rg = 50\Omega$ (no input side $Rg = 500\Omega$)	-52	-57		dB
		$V_{IN} = 2V_{P-p,f} = 3.58MH_{z}$				
Maximum Input Voltage	V_{IN}	$Rg = 600\Omega$, $f = 1kHz$, $THD = 1\%$	5.0			Vp-p
2nd Harmonic	H ₂	$Rg = 50\Omega$, $V_{IN} = 4Vp-p$, $f = 1MHz$	- 46	-55		dB
3rd Harmonic	H ₃	$Rg = 50\Omega$, $V_{IN} = 4Vp$ -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		VCC	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	-50	0	+50	mV
		the time of changeover from switch A to B,and vice versa				
Crosstalk between Channels	CRch	$Rg = 500\Omega, R_{L} = \infty$		-63		đB
	010011	Other channel input	00	-03		uр
		$Rg = 50\Omega$, $V_{IN} = 2Vp-p$, $f = 3.58MHz$				
		106 - 0000, 100 - 27 p - p, t = 0.0000112				

Package Dimensions





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Equivalent Circuit Block Diagram



Input/Output Equivalent Circuit

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LA7222

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