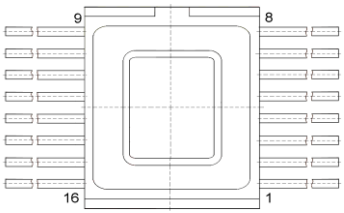
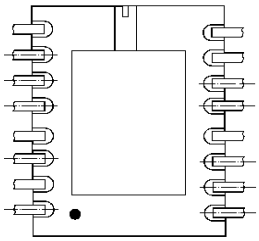
RD ALFA Microelectronics

Two channel Voltage Comparator αRD2/710/T5D

TOP VIEW



BOTTOM VIEW



Pin Connection Diagram

Pin	Destination	Pin	Destination
1	General	9	General
2	Noninverting input 1	10	Noninverting input 2
3	Inverting input 1	11	Inverting input 2
4	Power Supple V_{S2} (minus)	12	Power Supple V_{S2} (minus)
5	Output 2	13	Output 1
6	Power Supple V_{S1} (plus)	14	Power Supple V_{S1} (plus)
7	Strobe	15	-
8	-	16	Strobe

Electrical Characteristics

Parameter	Conditions	T_A	Min Value	Max value	Units
Input Offset Voltage	V_{OUT} = 1.4	+25°C	-5	5	
	Vs+ = 12,6 V, Vs- = -6,3 V.	-45°C	-5	5	mV
		+85°C	-6	6	
High level output voltage	V_I=-50 mV	+25°C	2,6	-	
	Vs+ = 12 V, Vs- = -6 V.	-45°C	2,4	-	V
	Io=3 mA	+85°C	2,4	-	
Low level output voltage	V_I=-50 mV	+25°C	-0,35	0,35	
	Vs+ = 12 V, Vs- = -6 V.	-45°C	-0,35	0,4	V
	Io=-1 mA	+85°C	-0,35	0,4	
Input Offset Current	V_{OUT} = 1.4	+25°C	-	2	
	Vs+ = 12,6 V, Vs- = -6,3 V.	-45°C	-	3	µA
		+85°C	-	3	
Input Bias Current	V_{OUT} = 1.4	+25°C	-	1	
	Vs+ = 12,6 V, Vs- = -6,3 V.	-45°C	-	10	µA
		+85°C		7	
Positive Supply Current Icc1	V_I=-50 mV	+25°C	-	12	
	Vs+ = 12,6 V, Vs- = -6,3 V.	-45°C	-	16	mA
		+85°C	-	12	
Positive Supply Current Icc2	V_I=-50 mV	+25°C	-	7	
	Vs+ = 12,6 V, Vs- = -6,3 V.	-45°C	-	8	mA
		+85°C	-	7	
Voltage Gain	V_{OUT} = 1.4 V	+25°C	1000	-	
	Vs+ = 11,4 V, Vs- = -5,7 V.	-45°C	1000	-	V/V
	ΔU_{IO}=±0,5V	+85°C	750	-	
Turn-off delay time	Vs+ = 12 V, Vs- = -6 V. U_{REF}=-100 mV U_G=-150 mV ±1,5%	+25°C	-	55	ns

Microcircuits are manufactured under the supervision of the Quality Department, thoroughly inspected, and verified to correspond with the specifications.