

PART NUMBER 54H62JB-ROCV

Rochester Electronics Manufactured Components

Rochester branded components are manufactured using either die/wafers purchased from the original suppliers or Rochester wafers recreated from the original IP. All re-creations are done with the approval of the Original Component Manufacturer. (OCM)

Parts are tested using original factory test programs or Rochester developed test solutions to guarantee product meets or exceeds the OCM data sheet.

Quality Overview

- ISO-9001
- AS9120 certification
- Qualified Manufacturers List (QML) MIL-PRF-38535
 - Class Q Military
 - Class V Space Level

Qualified Suppliers List of Distributors (QSLD)

 Rochester is a critical supplier to DLA and meets all industry and DLA standards.

Rochester Electronics, LLC is committed to supplying products that satisfy customer expectations for quality and are equal to those originally supplied by industry manufacturers.

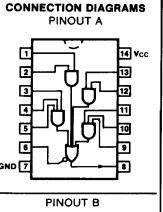
The original manufacturer's datasheet accompanying this document reflects the performance and specifications of the Rochester manufactured version of this device. Rochester Electronics guarantees the performance of its semiconductor products to the original OCM specifications. 'Typical' values are for reference purposes only. Certain minimum or maximum ratings may be based on product characterization, design, simulation, or sample testing.

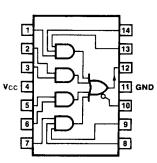
V54H/74H62 011187

3-2-2-3-INPUT AND-OR EXPANDER

ORDERING CODE: See Section 9

	PIN OUT	COMMERCIAL GRADE	MILITARY GRADE	PKG			
PKGS		$V_{CC} = +5.0 \text{ V } \pm 5\%,$ $T_A = 0^{\circ}\text{C to } +70^{\circ}\text{C}$	$V_{CC} = +5.0 \text{ V} \pm 10\%,$ $T_A = -55^{\circ}\text{ C to} + 125^{\circ}\text{ C}$	TYPE			
Plastic DIP (P)	Α	74H62PC		9A			
Ceramic DIP (D)	Α	74H62DC	54H62DM	6A			
Flatpak (F)	В	74H62FC	54H62FM	31			





INPUT LOADING/FAN-OUT: See Section 3 for U.L. definitions

PINS	54/74H (U.L.) HIGH/LOW	
Inputs Outputs ¹	1.25/1.25 Note 2	

DC CHARACTERISTICS OVER OPERATING TEMPERATURE RANGE (unless otherwise specified)

SYMBOL	PARAMETER	54/	54/74H		CONDITIONS3	
		Min	Max	UNITS	CONDITIONS	
Von O	Output ON Voltage		0.4	V	T = -55° C ION = 5.85 mA	V _{CC} = Min, V _{IN} = 2.0 V, V ₁ = 1.0 V
			0.4		T _A = 0° C I _{ON} = 6.3 mA	
Von	Output ON Voltage		0.4	V	T _A = +125°C I _{ON} = 7.85 mA	V _{CC} = Max, V _{IN} = 2.0 V, V ₁ = 0.6 V
			0.4	v	T _A = +70° C I _{ON} = 7.4 mA	
loff Output C	Output OFF Current		320	μΑ	T _A = -55° C	V _{CC} = Min, V _{IN} = 0.8 V,
			570		T _A = 0°C	$V_1 = 4.5 \text{ V},$ $R = 575 \Omega$
lon	Output ON Current	-470 -600		μΑ	T _A = -55° C T _A = 0° C	V _{CC} = Min, V _{IN} = 2.0 V, V ₁ = 1.0 V
ICC(ON) ICC(OFF)	Power Supply Current		7.0 9.0	mA	V _{IN} = Open V _{IN} = Gnd	V _{CC} = Max, V ₁ = 0.85 V

- 1. A maximum of one expander may be connected to one expandable AND-OR-Invert gate
- 2. Expander Outputs
- 3. V₁ is applied to x output terminal during test

OUTPUT CAPACITANCE: VGC and Ground Terminals Open					
SYMBOL	PARAMETER	54/74H		UNITS	CONDITIONS
		Min	Max		COMDITIONS
C⊼	Effective Capacitance of Output Transistor Q ₁		1.3*	pF	f = 1.0 MHz, T _A = +25°C

^{*}Typical Value