

PART NUMBER 74S22PC-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

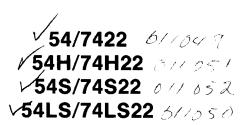
- ISO-9001
- AS9120 certification
- Qualified Manufacturers List (QML) MIL-PRF-38535
 - Class Q Military
 - Class V Space Level

Qualified Suppliers List of Distributors (QSLD)

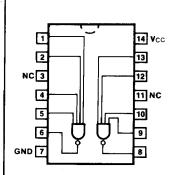
 Rochester is a critical supplier to DLA and meets all industry and DLA standards.

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.



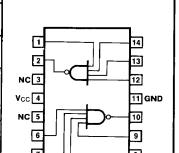
DUAL 4-INPUT NAND GATE (With Open-Collector Output)



CONNECTION DIAGRAMS PINOUT A

ORDERING CODE: See Section 9

	PIN	COMMERCIAL GRADE	MILITARY GRADE	PKG TYPE	
PKGS	ОUТ	$V_{CC} = +5.0 \text{ V } \pm 5\%,$ $T_A = 0^{\circ}\text{C to } +70^{\circ}\text{C}$	$V_{CC} = +5.0 \text{ V} \pm 10\%,$ $T_A = -55^{\circ}\text{ C} \text{ to } +125^{\circ}\text{ C}$		
Plastic DIP (P)	А	7422PC, 74H22PC 74S22PC, 74LS22PC		9A	
Ceramic DIP (D)	Α	7422DC, 74H22DC 74S22DC, 74LS22DC	5422DM, 54H22DM 54S22DM, 54LS22DM	6A	
Flatpak	Α	7422FC, 74S22FC 74LS22FC	5422FM, 54S22FM 54LS22FM	31	
(F)	В	74H22FC	54H22F M		



PINOUT B

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

PINS	54/74 (U.L)	54/74H (U.L.)	54/74S (U.L.)	54/74LS (U.L.)		
	HIGH/LOW	HIGH/LOW	HIGH/LOW	HIGH/LOW		
Inputs	1.0/1.0	1.25/1.25	1.25/1.25	0.5/0.25		
Outputs	OC**/10	OC**/12.5	OC**/12.5	OC**/5.0		
				(2.5)		

DC AND AC CHARACTERISTICS: See Section 3*

SYMBOL	PARAMETER	54/74		54/74H		54/74\$		54/74LS		UNITS	CONDITIONS	
		Min	Max	Min	Max	Min	Max	Min	Max		CONDITIONS	
Іссн	Power Supply		4.0		5.0		6.6		8.0	mA	V _{IN} = Gnd	Vcc = Max
ICCL	Current		11		20		18		2.2	W/A	V _{IN} = Open	
tPLH tPHL	Propagation Delay		45 15		15 12	2.0 2.0	7.5 7.0		22 18	ns	Figs. 3-2, 3-4	

^{*}DC limits apply over operating temperature range; AC limits apply at TA = +25°C and VCC = +5.0 V.

**OC - Open Collector