

PART NUMBER

54H08FMB-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)

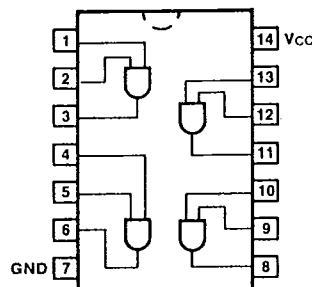
- Rochester is a critical supplier to DLA and meets all industry and DLA standards.

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.

54/7408
54H/74H08
54S/74S08
54LS/74LS08
QUAD 2-INPUT AND GATE

CONNECTION DIAGRAMS
PINOUT A

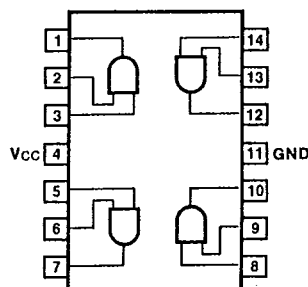


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ORDERING CODE: See Section 9

PKGS	PIN OUT	COMMERCIAL GRADE	MILITARY GRADE	PKG TYPE
		V _{CC} = +5.0 V ±5%, T _A = 0°C to +70°C	V _{CC} = +5.0 V ±10%, T _A = -55°C to +125°C	
Plastic DIP (P)	A	7408PC, 74H08PC 74S08PC, 74LS08PC		9A
Ceramic DIP (D)	A	7408DC, 74H08DC 74S08DC, 74LS08DC	5408DM, 54H08DM 54S08DM, 54LS08DM	6A
Flatpak (F)	A	7408FC, 74S08FC 74LS08FC	5408FM, 54S08FM 54LS08FM	3I
	B	74H08FC	54H08FM	

PINOUT B



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

PINS	54/74 (U.L.) HIGH/LOW	54/74H (U.L.) HIGH/LOW	54/74S (U.L.) HIGH/LOW	54/74LS (U.L.) HIGH/LOW
Inputs	1.0/1.0	1.25/1.25	1.25/1.25	0.5/0.25
Outputs	20/10	12.5/12.5	25/12.5	10/5.0 (2.5)

DC AND AC CHARACTERISTICS: See Section 3*

SYMBOL	PARAMETER	54/74		54/74H		54/74S		54/74LS		UNITS	CONDITIONS	
		Min	Max	Min	Max	Min	Max	Min	Max			
I _{CC} H	Power Supply	21		40		32		4.8		mA	V _{IN} = Open	V _{CC} = Max
I _{CC} L	Current	33		64		57		8.8			V _{IN} = Gnd	
t _{PL} H	Propagation Delay	27		12		2.5	7.0	13		ns	Fig. 3-1, 3-5	
t _{PH} L		19		12		2.5	7.5	11				

*DC limits apply over operating temperature range; AC limits apply at T_A = +25°C and V_{CC} = +5.0 V.