
PART NUMBER**9009DMC-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.

9XXX Series

9009

NAND BUFFER

ORDERING CODE: See Section 9

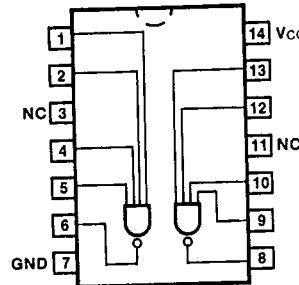
PKGS	PIN OUT	COMMERCIAL GRADE	MILITARY GRADE	PKG TYPE
		$V_{CC} = +5.0 \text{ V}, \pm 5\%$ $T_A = 0^\circ \text{C to } +75^\circ \text{C}$	$V_{CC} = +5.0 \text{ V} \pm 10\%$ $T_A = -55^\circ \text{C to } +125^\circ \text{C}$	
Ceramic DIP (D)	A	9009DC	9009DM	6A
Flatpak (F)	A	9009FC	9009FM	3I

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

PINS	9XXX (U.L.) HIGH/LOW
Inputs	3.0/2.0
Outputs	90/26 (99)/(25.5)

CONNECTION DIAGRAM
PINOUT A

T-43-15

Vcc = Pin 14
GND = Pin 7

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DC AND AC CHARACTERISTICS OVER COMMERCIAL TEMPERATURE RANGE: $V_{CC} = +5.0 \text{ V} \pm 5\%$

SYMBOL	PARAMETER	0°C		25°C		75°C		UNITS	CONDITIONS
		Min	Max	Min	Max	Min	Max		
V_{IH}	Input HIGH Voltage	1.9		1.8		1.6		V	Guaranteed Input HIGH Threshold
V_{IL}	Input LOW Voltage	0.85		0.85		0.85		V	Guaranteed Input LOW Threshold
V_{OL}	Output LOW Voltage	0.45		0.45		0.45		V	$V_{CC} = 5.25 \text{ V}$, $I_{OL} = 48 \text{ mA}$, $V_{IN} = 5.25 \text{ V}$ $V_{CC} = 4.75 \text{ V}$, $I_{OL} = 42.3 \text{ mA}$, Inputs at V_{IH}
I_{IH}	Input HIGH Current			120		120		μA	$V_{CC} = 5.25 \text{ V}$, $V_{IN} = 4.5 \text{ V}$ Gnd on Other Inputs
I_{IL}	Input LOW Current	-3.2		-3.2		-3.2		mA	$V_{CC} = 5.25 \text{ V}$, $V_{IN} = .45 \text{ V}$ 5.25 V on Other Inputs $V_{CC} = 4.75 \text{ V}$, $V_{IN} = .45 \text{ V}$ 5.25 V on Other Inputs
I_{CCH} I_{CCL}	Power Supply Current (each gate)	ON OFF	14.6 3.4	14.6 3.4	14.6 3.4	14.6 3.4		mA	$V_{IN} = \text{Open}$ $V_{IN} = \text{Gnd}$
t_{PLH} t_{PHL}	Propagation Delay		3.0 2.0	17 13				ns	Figs. 3-1, 3-4 $C_L = 15 \text{ pF}$

9XXX Series

T-43-15

DC AND AC CHARACTERISTICS OVER MILITARY TEMPERATURE RANGE: $V_{CC} = +5.0 \text{ V} \pm 10\%$

SYMBOL	PARAMETER	-55°C		25°C		125°C		UNITS	CONDITIONS
		Min	Max	Min	Max	Min	Max		
V_{IH}	Input HIGH Voltage	2.0		1.7		1.4		V	Guaranteed Input HIGH Threshold
V_{IL}	Input LOW Voltage		0.8		0.9		0.8	V	Guaranteed Input LOW Threshold
V_{OL}	Output LOW Voltage	0.4	0.4	0.4	0.4	V			$V_{CC} = 5.5 \text{ V}$, $I_{OL} = 52.8 \text{ mA}$ $V_{IN} = 5.5 \text{ V}$
									$V_{CC} = 4.5 \text{ V}$, $I_{OL} = 40.8 \text{ mA}$, Inputs at V_{IH}
I_{IH}	Input HIGH Current			120		120		μA	$V_{CC} = 5.5 \text{ V}$, $V_{IN} = 4.5 \text{ V}$ Gnd on Other Inputs
I_{IL}	Input LOW Current	-3.2		-3.2		-3.2		mA	$V_{CC} = 5.5 \text{ V}$ $V_{IN} = 0.4 \text{ V}$ 5.5 V on Other Inputs
		-2.48		-2.48		-2.48			$V_{CC} = 4.5 \text{ V}$ $V_{IN} = 0.4 \text{ V}$ 5.5 V on Other Inputs
I_{CCH}	Power Supply Current (each gate)	ON		12.9		12.9		mA	$V_{IN} = \text{Open}$
I_{CCL}		OFF		3.2		3.2			$V_{IN} = \text{Gnd}$
t_{PLH} t_{PHL}	Propagation Delay			4.0 3.0	15 10			ns	Figs. 3-1, 3-4 $C_L = 15 \text{ pF}$