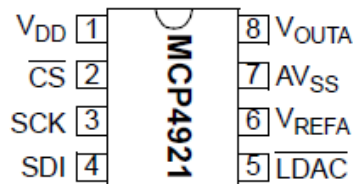


8-Pin PDIP, SOIC, MSOP



14-Pin PDIP, SOIC, TSSOP

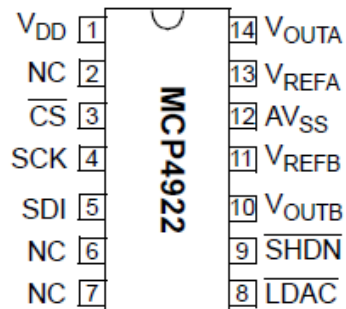


TABLE 3-1: PIN FUNCTION TABLE

MCP4921 Pin No.	MCP4922 Pin No.	Symbol	Function
1	1	V_{DD}	Positive Power Supply Input (2.7V to 5.5V)
—	2	NC	No Connection
2	3	\overline{CS}	Chip Select Input
3	4	SCK	Serial Clock Input
4	5	SDI	Serial Data Input
—	6	NC	No Connection
—	7	NC	No Connection
5	8	\overline{LDAC}	Synchronization input used to transfer DAC settings from serial latches to the output latches.
—	9	\overline{SHDN}	Hardware Shutdown Input
—	10	V_{OUTB}	DAC _B Output
—	11	V_{REFB}	DAC _B Voltage Input (AV_{SS} to V_{DD})
7	12	AV_{SS}	Analog ground
6	13	V_{REFA}	DAC _A Voltage Input (AV_{SS} to V_{DD})
8	14	V_{OUTA}	DAC _A Output

REGISTER 5-1: WRITE COMMAND REGISTER

Upper Half:							
W-x	W-x	W-x	W-0	W-x	W-x	W-x	W-x
$\overline{A/B}$	BUF	\overline{GA}	\overline{SHDN}	D11	D10	D9	D8
bit 15				bit 8			

Lower Half:							
W-x	W-x	W-x	W-x	W-x	W-x	W-x	W-x
D7	D6	D5	D4	D3	D2	D1	D0
bit 7				bit 0			

bit 15 **$\overline{A/B}$:** DAC_A or DAC_B Select bit

1 = Write to DAC_B

0 = Write to DAC_A

bit 14 **BUF:** V_{REF} Input Buffer Control bit

1 = Buffered

0 = Unbuffered

bit 13 **\overline{GA} :** Output Gain Select bit

1 = 1x ($V_{OUT} = V_{REF} * D/4096$)

0 = 2x ($V_{OUT} = 2 * V_{REF} * D/4096$)

bit 12 **\overline{SHDN} :** Output Power Down Control bit

1 = Output Power Down Control bit

0 = Output buffer disabled, Output is high impedance

bit 11-0 **D11:D0:** DAC Data bits

12 bit number "D" which sets the output value. Contains a value between 0 and 4095.

