

ADG3304 Specifications: Datasheet Rev. B

Parameter	Symbol	Test Conditions/Comments	Min	Max	Unit
LOGIC INPUTS/OUTPUTS A Side					
Input High Voltage	V_{IHA}	$V_{CCA} = 1.15\text{ V}$	$V_{CCA} - 0.3$		V
	V_{IHA}	$V_{CCA} = 1.2\text{ V to } 5.5\text{ V}$	$V_{CCA} - 0.4$		
Input Low Voltage	V_{ILA}			0.4	V
Y Side					
Input High Voltage	V_{IHY}		$V_{CCY} - 0.4$		V
Input Low Voltage	V_{ILY}			0.4	V
Enable (EN)					
Input High Voltage	V_{IHEN}	$V_{CCA} = 1.15\text{ V}$	$V_{CCA} - 0.3$		V
	V_{IHEN}	$V_{CCA} = 1.2\text{ V to } 5.5\text{ V}$	$V_{CCA} - 0.4$		V
Input Low Voltage	V_{ILEN}			0.4	V

ADG3304 Specifications: Datasheet Rev. C

Parameter	Symbol	Test Conditions/Comments	Min	Max	Unit
LOGIC INPUTS/OUTPUTS A Side					
Input High Voltage	V_{IHA}	$V_{CCA} = 1.2\text{ V} + 0.1\text{ V}/-0.05\text{ V}$	$V_{CCA} \times 0.88$		V
		$V_{CCA} = 1.8\text{ V} \pm 0.15\text{ V}$	$V_{CCA} \times 0.72$		V
		$V_{CCA} = 2.5\text{ V} \pm 0.2\text{ V}$	1.7		V
		$V_{CCA} = 3.3\text{ V} \pm 0.3\text{ V}$	2.2		V
		$V_{CCA} = 5\text{ V} \pm 0.5\text{ V}$	$V_{CCA} \times 0.7$		V
Input Low Voltage	V_{ILA}	$V_{CCA} = 1.2\text{ V} + 0.1\text{ V}/-0.05\text{ V}$		$V_{CCA} \times 0.35$	V
		$V_{CCA} = 1.8\text{ V} \pm 0.15\text{ V}$		$V_{CCA} \times 0.35$	V
		$V_{CCA} = 2.5\text{ V} \pm 0.2\text{ V}$		0.7	V
		$V_{CCA} = 3.3\text{ V} \pm 0.3\text{ V}$		0.8	V
		$V_{CCA} = 5\text{ V} \pm 0.5\text{ V}$		$V_{CCA} \times 0.3$	V
Y Side					
Input High Voltage	V_{IHY}	$V_{CCY} = 1.8\text{ V} \pm 0.15\text{ V}$	$V_{CCY} \times 0.67$		V
		$V_{CCY} = 2.5\text{ V} \pm 0.2\text{ V}$	1.7		V
		$V_{CCY} = 3.3\text{ V} \pm 0.3\text{ V}$	2		V
		$V_{CCY} = 5\text{ V} \pm 0.5\text{ V}$	$V_{CCY} \times 0.7$		V
Input Low Voltage	V_{ILY}	$V_{CCY} = 1.8\text{ V} \pm 0.15\text{ V}$		$V_{CCY} \times 0.35$	V
		$V_{CCY} = 2.5\text{ V} \pm 0.2\text{ V}$		0.7	V
		$V_{CCY} = 3.3\text{ V} \pm 0.3\text{ V}$		0.8	V
		$V_{CCY} = 5\text{ V} \pm 0.5\text{ V}$		$V_{CCY} \times 0.25$	V
Enable (EN)					
Input High Voltage	V_{IHEN}	$V_{CCA} = 1.2\text{ V} + 0.1\text{ V}/-0.05\text{ V}$	$V_{CCA} \times 0.88$		V
		$V_{CCA} = 1.8\text{ V} \pm 0.15\text{ V}$	$V_{CCA} \times 0.72$		V
		$V_{CCA} = 2.5\text{ V} \pm 0.2\text{ V}$	1.7		V
		$V_{CCA} = 3.3\text{ V} \pm 0.3\text{ V}$	2.2		V
		$V_{CCA} = 5\text{ V} \pm 0.5\text{ V}$	$V_{CCA} \times 0.7$		V
Input Low Voltage	V_{ILEN}	$V_{CCA} = 1.2\text{ V} + 0.1\text{ V}/-0.05\text{ V}$		$V_{CCA} \times 0.35$	V
		$V_{CCA} = 1.8\text{ V} \pm 0.15\text{ V}$		$V_{CCA} \times 0.35$	V
		$V_{CCA} = 2.5\text{ V} \pm 0.2\text{ V}$		0.7	V
		$V_{CCA} = 3.3\text{ V} \pm 0.3\text{ V}$		0.8	V
		$V_{CCA} = 5\text{ V} \pm 0.5\text{ V}$		$V_{CCA} \times 0.3$	V