

Digital Potentiometers

Part Number	Number of Channels	Resolution (Number of Wiper Steps)	Interface Data Control	Nominal Resistance (k Ω)	Terminal Voltage Range (V)	Absolute Tempco (ppm/ $^{\circ}$ C)	Comments	Packages						Price @ 1k (\$U.S.)	
								SC70	SOT-23	LFCSOP	MSOP	TSSOP	SOIC		PDIP
<i>Volatile Memory</i>															
AD5228	1	32	Push-button	10, 50, 100	+5.5	35	Manual with built-in debouncer		•					0.34	
AD5201		33	SPI	10, 50	$\pm 3, +5.5$	500	Handles bipolar signal			•				0.50	
AD5227		64	Up/down		10, 50, 100	+5.5	35	Simple interface		•					0.36
AD5246		128	I 2 C [®]		5, 10, 50, 100	+5.5	35	Rheostat, ultracompact	•						0.45
AD5247		128	I 2 C		5, 10, 50, 100	+5.5	35	Ultracompact	•						0.45
AD5220		128	Up/down		10, 50, 100	+5.5	800	Simple interface			•		•	•	0.90
AD7376		128	SPI*		10, 50, 100	$\pm 15, +30$	300	High voltage, low THD				•	•	•	2.86
AD5160		256	SPI		5, 10, 50, 100	+5.5	35	Compact		•					0.64
AD5165		256	3-wire		100	+5.5	35	Low power: 0.05 μ A		•					0.58
AD5245		256	I 2 C		5, 10, 50, 100	+5.5	35	Compact		•					0.64
AD5161		256	SPI/I 2 C		5, 10, 50, 100	+5.5	35	SPI/I 2 C-selectable			•				0.65
AD5241		256	I 2 C		10, 100, 1000	$\pm 3, +5.5$	30	Handles bipolar signal				•	•		0.93
AD5200		256	SPI		10, 50	$\pm 3, +5.5$	500	Handles bipolar signal			•				0.89
AD8400		256	SPI*		1, 10, 50, 100	+5.5	500	1 k Ω with high bandwidth					•	•	1.13
AD5260		256	SPI		20, 50, 200	$\pm 5, +15$	35	Medium voltage					•		1.80
AD5280		256	I 2 C		20, 50, 200	$\pm 5, +15$	35	Medium voltage					•		1.80
AD5290		256	SPI		10, 50, 100	$\pm 15, +30$	35	High voltage, low THD			•				1.97
AD5293		1024	SPI		20, 50, 100	$\pm 15, +30$	35	1% R-Tol					•		2.55
AD5222		128	Up/down		10, 50, 100, 1000	$\pm 3, +5.5$	35	Simple interface					•	•	0.80
AD5243		256	I 2 C		2.5, 10, 50, 100	+5.5	35	Dual potentiometers			•				1.00
AD5162		256	SPI		2.5, 10, 50, 100	+5.5	35	Rheostat/potentiometer			•				1.00
AD5248		256	I 2 C		2.5, 10, 50, 100	+5.5	35	Dual rheostats			•				1.00
AD5207		256	SPI		10, 50, 100	$\pm 3, +5.5$	500	AD8402 replacement					•		1.06
AD8402		256	SPI*		1, 10, 50, 100	+5.5	500	1 k Ω with high bandwidth					•	•	1.68
AD5242		256	I 2 C		10, 100, 1000	$\pm 3, +5.5$	30	Handles bipolar signal					•	•	1.27
AD5262		256	SPI		20, 50, 200	$\pm 5, +15$	35	Medium voltage					•		1.97
AD5282	256	I 2 C		20, 50, 200	$\pm 5, +15$	35	Medium voltage					•		1.97	
AD5203	64	SPI*		10, 100	+5.5	700	4-channel					•	•	1.47	
AD5204	256	SPI		10, 50, 100	$\pm 3, +5.5$	700	Handles bipolar signal			•		•	•	1.52	
AD8403	256	SPI*		1, 10, 50, 100	+5.5	500	1 k Ω with high bandwidth					•	•	2.79	
AD5263	256	SPI/I 2 C		20, 50, 200	$\pm 5, +15$	30	SPI/I 2 C-selectable					•		2.58	
AD5206	6	256	SPI*	10, 50, 100	$\pm 3, +5.5$	700	6-channel					•	•	1.94	
<i>Nonvolatile Memory</i>															
AD5258	1	64	I 2 C	1, 10, 50, 100	+5.5	300	Tolerance in NVM			•	•			0.59	
AD5259		256	I 2 C	5, 10, 50, 100		300	Tolerance in NVM			•	•				0.90
AD5231		1024	SPI	10, 50, 100		600	High resolution					•		1.97	
AD5251	2	64	I 2 C	1, 10, 50, 100		600	Tolerance in NVM					•		1.97	
AD5252		256	I 2 C	1, 10, 50, 100		300	Tolerance in NVM					•		1.61	
AD5232		256	SPI	10, 50, 100		300						•		2.40	
AD5235		1024	SPI	25, 250		35	Tolerance in NVM					•		3.52	
ADN2850		1024	SPI	25, 250		35	Tolerance in NVM			•				3.52	
AD5255	3	512 \times 2, 128 \times 1	I 2 C	25, 250	$\pm 3, +5.5$	35	Tolerance in NVM					•		5.15	
ADN2860		512 \times 2, 128 \times 1	I 2 C	25, 250		35	Tolerance in NVM			•					5.97
AD5233	4	64	SPI	10, 50, 100		600						•		2.50	
AD5253		64	I 2 C	1, 10, 50, 100		300	Tolerance in NVM					•		2.49	
AD5254		256	I 2 C	1, 10, 50, 100		300	Tolerance in NVM					•		2.58	
<i>One-Time Programmable Memory</i>															
AD5273	1	64	I 2 C	1, 10, 50, 100	+5.5	300	1 k Ω with high bandwidth			•				0.69	
AD5171		64	I 2 C	5, 10, 50, 100		35	Low tempco			•					0.72
AD5172	2	256	I 2 C	2.5, 10, 50, 100		35	Dual potentiometers					•		1.32	
AD5173		256	I 2 C	2.5, 10, 50, 100		35	Dual rheostats					•		1.32	
<i>Multitime Programmable Memory</i>															
AD5170	1	256	I 2 C	2.5, 10, 50, 100	+5.5	35	2-TP [†]					•		1.00	
AD5291		256	SPI	20, 50, 100	$\pm 15, +30$	35	1% R-Tol, 20-TP [†]					•		2.29	
AD5292		1024	SPI	20, 50, 100	$\pm 15, +30$	35	1% R-Tol, 20-TP [†]					•		2.62	

* These devices do not have a power-on reset.

† TP = times programmable.

For more information, visit www.analog.com/digitalpots.



