TABLE 9.4. DIGITAL-TO-ANALOG CONVERTERS

Type	Mfg[a]	# per pkg	Bits	Latch	V or I?	Speed to MSB/2 (ns)	Pol[b]	Input org	Pkg[c]	V_{supply} (V)	I_{supply} (mA)	Reference	Trim[d]	Multiplying?	Ext'd compl?[e]	Low glitch?	Price	Comments
AD9702	AD	3	4	1	I	5	–	12	24	±6	1.8W	ext	–	–	4.2	•	$45	color video; ECL or TTL
AD7225	AD	4	8	2	V	5000	+	4x8	24S	+15	10	ext	NT	–	–	–	$18	double buffered; 7226 is single buff.
AD558	AD	1	8	1	V	1000	+	8	16	5 to 15	15	int	NT	–	–	–	$6	complete, easy to use
DAC0830	NS	1	8	2	I	1000	M	8	20	5 to 15	2	0 to ±25	NT	•	N	–		same pinout as 12-bit DAC1230
AD7528	AD	2	8	1	I	350	M	8	20	5 to 15	0.1	0 to ±25	NT	•	N	–	$6	dual, easy to use
DAC8408	PM	4	8	1	I	190	M	4x8	28	+5	0.05	ext	NT	•	N	–		can read back buffers
Bt-110	BT	8	8	1	I	100	+	8	40	+5	30	int	•	–	N	–		octal
AD7524	AD	1	8	1	I	100	M	8	16	5 to 15	0.1	0 to ±10	NT	•	N	–	$5	indus std multiplying DAC
DAC-08	AD	1	8	-	I	85	–	8	16	±15	+2,-6	ext	–	–	28	–	$1	obsolete; indus std
Bt-453	BT	3	8	1	I[f]	15	+	8	40	+5	160	ext	–	–	N	–	$58	256x24 palette, for 256 of 16M colors
HDG0807	AD	1	8	-	V[f]	14	+	8	24	+5	185	int	NT	–	–	–	$43	video, 75Ω output
TDC1018	TR	1	8	1	I	10	–	8	24	-5.2	100	ext	–	–	4	•		video
AD9768	AD	1	8	-	I	5	–	8	18?	±5	+15,-70	int	NT	–	N	–	$40	ECL inputs
TDC1318	TR	3	8	1	I	5	–	3x8	40	-5.2	200	int	NT	–	N	–		high res'n color video; many 2nd sources
TQ6112	TQ	1	8	1	V	1	–	8	44	-3.5,-9	3.5W	ext	–	–	N	•		GaAs: ultra-fast
IDT75C29	ID	1	9	1	I	8	–	9	24	+5	80	ext	–	–	N	–		
DAC1000	NS	1	10	2	I	500	M	8+2	20	5 to 12	0.5	0 to ±25	NT	•	N	–		double buffered; cheap
AD7248	AD	1	12	2	V	5000	±	8+4	20	±15	5	int	NT	–	–	–	$10	single supply possible; +5V ref out
AD7537	AD	2	12	2	I	1500	M	8+4	24S	+15	5	ext	NT	–	N	–	$15	
AD7548	AD	1	12	2	I	1000	M	8+4	20	5 to 15	1	0 to ±25	NT	•	N	–	$10	
DAC1230	NS	1	12	2	I	1000	M	8+4	20	+15	1.2	0 to ±25	NT	•	N	–		same pinout as DAC0830
AD568	AD	1	12	-	I	35	±	12	24S	±15	+30,-8	int	•	–	N	•	$42	
AD7534	AD	1	14	2	I	1500	M	8+4	20	+15,-0.3	0.5	0 to ±25	•	•	N	–	$17	7535,6,8 have 14-bit bus
AD569	AD	1	16	2	V	6000	M	8+8	28	±12	±6	±5	NT	•	–	–	$28	
DAC71/72	all	1	16	-	I	1000	±	16	24	+5,±15	10,+10,-30	int	•	–	11	–	$45	indus std; V_{out} also: 10µs
PCM54	BB	1	16	-	I	350	±	16	28	±5 to ±15	±13	int	NT	–	N	•	$11	digital audio, cheap; V_{out} also: 3µs
DAC729	BB	1	18	-	I	300	–	18	40	+5, +15	18,+30,-40	int	•	–	6	–	$141	V_{out} also: 4µs; 18 bits = 4ppm!

[a] see footnote to Table 4.1. [b] M - multiplying. [c] all are DIP; S - skinny-DIP. [d] NT - no trim required. [e] extended compliance, in volts. [f] to drive 75Ω.