A/D Converters

Microprocessor Compatible

12-Bit A/D Converters with µP Interface

Type	Features	Res. Bits	Temperature Range (°C)	Linearity Error Max, +25°C (LSB)	+25°C Differential Nonlinearity Max No Missing Codes	Gain Drift ppm/°C, Max Full Temp	Conversion Speed (µs) Max Over Temperature	
							12 Bits	8 Bits
HI-574AJD-5	• Complete with reference	12	0 to +75	±1	11 bits	±45	25	17
HI-574AKD-5	and clock	12	0 to +75	±½	12 bits	±25	25	17
HI-574ALD-5	• 150ns bus access time	12	0 to +75	±½	12 bits	±10	25	17
HI-574ASD-2	• 20µs typ. conversion	12	−55 to +125	±1	11 bits	±50	25	17
HI-574ASD/ 883	time (full temp. range)	12	−55 to +125	±1	11 bits	±50	25	17
	• ±12V to ±15V operation							
HI-574ATD-2	• No missing codes over	12	−55 to +125	±½	12 bits	±25	25	17
HI-574ATD/ 883	temperature	12	−55 to +125	±½	12 bits	±25	25	17
	• Minimal set-up time for control signals							
	• Byte enable/short cycle (A$_O$ input)							
	• Improved alternate source for the AD574A & HS574							
	• Available in 28-pin ceramic, DIP and leadless chip carrier *							
HI-674AJD-5	• Complete with reference	12	0 to +75	±1	11 bits	±45	15	10
HI-674AKD-5	and clock	12	0 to +75	±½	12 bits	±25	15	10
HI-674ALD-5	• Fast conversion: 12µs	12	0 to +75	±½	12 bits	±10	15	10
HI-674ASD-2	typ., 15µs max. for 12 bits	12	−55 to +125	±1	11 bits	±50	15	10
HI-674ASD/ 883	• Selectable 8 or 12 line bus interface to	12	−55 to +125	±1	11 bits	±50	15	10
HI-674ATD-2	microprocessor	12	−55 to +125	±½	12 bits	±25	15	10
HI-674ATD/ 883	• 150ns bus access time	12	−55 to +125	±½	12 bits	±25	15	10
	• Same pinout and functions as the HI-574A and AD574A							
	• No missing codes over temperature							
	• Available in 28-pin ceramic, DIP and leadless chip carrier *							
HI1-774J-5	• Complete with reference	12	0 to +75	±1	11 bits	±9	9	6.8
HI1-774AK-5	and clock	12	0 to +75	±½	12 bits	±5	9	6.8
HI1-774S-2	• 9µs (max.) conversion	12	−55 to +125	±1	11 bits	±20	11	8.3
HI1-774T-2	time over commercial	12	−55 to +125	±½	12 bits	±10	11	8.3
HI1-774S/883	temperature	12	−55 to +125	±1	10 bits	±50	11	8.5
HI1-774T/883	• 150ns bus access time	12	−55 to +125	±½	11 bits	±25	11	8.5
	• Superior alternate source to the AD574A, HS574 and HI574A							
	• No missing codes over temperature							
	• Full 8, 12 or 16-bit µP interface							
	• Error correction							
	• Available in 28-pin DIP *							

* See interpretation guide and packaging section