



## General description

CSI synchro/resolver to digital converters are discrete encapsulated modules designed for printed circuit board mounting; each unit is fully trimmed, tested, requiring no external components. All units are Type II tracking converters that exhibit no velocity errors and only minor acceleration errors. Units incorporate solid state inputs featuring high reliability, frequency independence, and 1000% over-voltage protection. Input voltages from 2.5V to 130Vrms can be accommodated.

## Single-speed tracking synchro/resolver to digital converters

Series	Resolution	Accuracy	Tracking	Input	Package	Description/Features
168F100	14 bits	±5.2'	10rps	2.5-130V	2.62 x 3.12 x 0.4"	Low profile, industry standard pin-out. Velocity output option. Synchro or resolver input.
168F200	10 bits	±30'	70rps	50-1200Hz		
168F300	12 bits	±8.5'	30rps			
168T300	12 bits	±8.5'	to 50rps	2.5-130V 50-2600Hz	2.0 x 2.0 x 0.4"	Synchro or resolver inputs. 3-state latched outputs with 8 bit byte or 12 bit addressing and velocity output.
168T350						Synchro or resolver inputs. 3-state latched outputs. Second source for Analog Devices SDC/RDC1725.
268A300			to 100rps	Synchro/resolver inputs. Direction, ripple clock, inter-LSB, demodulator and velocity outputs.		
268B300			100rps	2.5V 2.5-10KHz		Resolver input for inductosyn applications. Direction, ripple clock and velocity outputs.
268C300			to 50rps	2.5-130V 50-1200Hz		Low power version of 268A300.
268D300			to 100rps	2.5-130V 50-5000Hz		Synchro or resolver inputs. +5V only with 3-state latched outputs. Direction and ripple carry outputs.
268E300			1024 cycles 4096 counts	100rps		2.5V 1.0-5KHz
468A100	14 bits	±4.0'	to 20rps	2.5-130V 50-5000Hz	2.0 x 2.5 x 0.5"	Synchro or resolver inputs. 3-state latched outputs. BIT, velocity, loss of reference and signal outputs.
468H200		±2.6'				Synchro or resolver inputs. 3-state latched outputs. Bit, velocity, loss of reference and signal outputs.
468H100	16 bits	±1.3'	to 5rps	2.5-130V 50-3000Hz	2.62 x 3.12 x 0.4"	Synthesized reference for improved accuracy. 168H300 incorporates two programmable bandwidths.
168H300				2.5-130V 50-5000Hz		
168E700	3 decade BCD	±1°	10rps	2.5-130V 50-1200Hz	2.62 x 3.12 x 0.8"	Industry standard synchro or resolver to BCD converter. Either 0° to 359° or 0° to ±179° output ranges.
168E600	4 decade BCD	±0.2°			2.0 x 2.0 x 0.44"	Industry standard synchro or resolver to BCD converter. Either 0° to 359.9° or 0° to ±179.9° output ranges.
268A600					Synchro or resolver inputs with two programmable output ranges, either 0° to 359.9° or 0° to ±179.9°.	

## Two-speed tracking synchro/resolver to digital converters

Series	Resolution	Accuracy	Tracking	Input	Package	Description/Features
168H500	16 bits	±20"	to 3rps	2.5-130V 50-3000Hz	2.62 x 3.12 x 0.8"	Industry standard pin-out. 1:8, 1:16, 1:18, 1:32 and 1:36 speed ratios. Synchro or resolver inputs, BIT output.
168M500					2.62 x 3.12 x 0.4"	Low profile version of the 168H500. 1:8, 1:10, 1:16, 1:32, 1:36, and 1:64 speed ratios.
168T500						3-state latched output version of the 168M500.
168T600						3-state latched output. BIT, velocity, loss of reference and signal outputs. 1:8, 1:16, 1:32, 1:36, 1:64 speed ratios. Synchro or resolver inputs.
168K400					20 bits	±4"
168K500						