



Cambridge Technology, Inc.

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MicroMax™ Model 671XX Servo

- MICROradian Level Accuracy and MAXimum Frequency Response
- Bridge Amp Output for Higher Speeds
- Integrating or Non-Integrating Operation
- Error and Slew Rate Limiting
- Input Scale and Offset Adjustments
- Controlled Power On/Off
- Analog or Digital Input
- New Low-Profile Design
- High Power Option for Maximum Speed

General Specifications

All angles are in mechanical degrees. All specifications apply after a 1 minute warm up period.

Analog Input Impedence	200K +/-1% ohms (Differential) 100K +/-1% ohms (Single Ended)
Analog Output Impedence	1K +/-1% ohms (for all observation outputs)
Position Input Scale Factor	0.5 volt/mechanical degree (2 degrees/volt), other configurations available
Position Input Range	+/- 10 volts max
Digital Position Input Range:	2 ¹⁶ dac counts
Non-Linearity of 16 Bit Digital Input:	0.006% of full scale, max.
Position Offset Range	+/- 2 volts
Position Output Scale Factor	0.5 volt/degree
Error Output Scale Factor	0.5 volt/degree
Velocity Output Scale Factor	analog output (scaled by position differentiator gain)
Fault Output	Open Collector: 1K ohm output impedance (pulls down to -15V), with 10mA sink capability
Temperature Stability of Electronics:	20PPM per degree C
Power Supply Requirements	+/-15 to +/-28VDC configurations available, +/-24 to +/-28VDC default
Maximum Drive Current Limit	10 amps peak 5 amps rms (power supply and load dependent) 20 amps peak (with high power option) 10 amps rms (with high power option, power supply & load dependent)
Operating Temperature Range	0 - 50 °C
Size	4.00" x 2.5" (2.63 with heatsink bracket) x 1.07" 10.16cm x 6.35cm (6.68cm) x 2.69cm

