



FEATURES

- Very low power consumption
- 15 bit binary angle input
- 5 decade BCD angle output
- Unipolar/bipolar output
- 2" x 2" module outline

GENERAL DATA

The outputs of most synchro/resolver to digital converters are given in parallel binary angle form. While this format is suitable for direct digital computer interface, it is not convenient or readily adaptable for direct conversion to visual angular display. The 269A101 is specifically designed to meet this particular interface requirement.

The 269A101 is a binary to BCD converter that is scaled to be compatible with binary angle measurement (BAMS), where the MSB = 180°, the next MSB = 90°, etc.

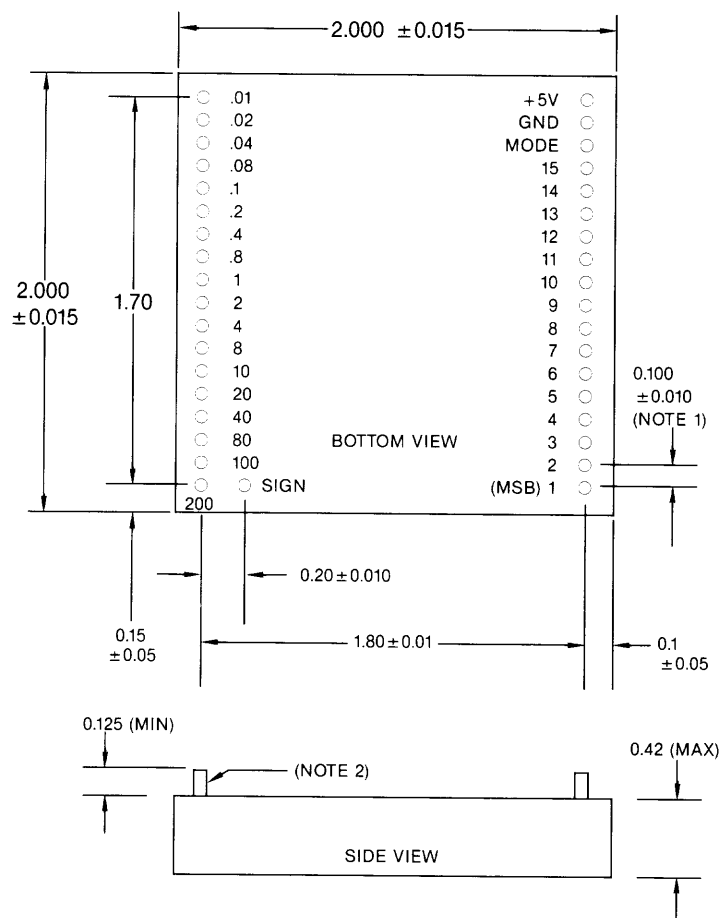
The converter consumes very little power and can be pin programed via the MODE pin to output either unipolar (0° to 359.99°) or bi-polar (0° to ±180.00°) angle ranges.

The 269A101 accepts parallel data and outputs parallel data with a maximum conversion time of 60 milliseconds.

SPECIFICATIONS

Parameter	Value
Binary Input	
Resolution	15 bits
Format	Parallel binary angle, positive logic Bit 1 = 180° Bit 15 = 0.011°
Fan-in	1 HC load
BCD Output	
Resolution	5 decade
Format	BCD angle, positive logic
Range	
Mode Input = "0"	0 to 359.99°
Mode Input = "1"	0 to ±180.00°
Rounding Error	±0.009°
Update Rate	60 msec max
Fan-out	2 TTL loads
Sign Output	
Format	Logic "0" = + Logic "1" = -
Fan-out	2 TTL loads
Power Supply	
Voltage	+5V ±5%
Current	20mA max
Temp. Range	
Operating	0° to 70°C
Storage	-55° to +125°C
Dimensions	2.0" x 2.0" x 0.4"
Weight	1.25 oz.

OUTLINE AND INTERCONNECTING DATA
269A101



NOTES

1. Non-cumulative
2. Rigid 0.025 diameter pins suitable for solder-in or plug-in applications.