



# binary angle/bcd converter 5 decade 15 bit

## 269A101



### 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.

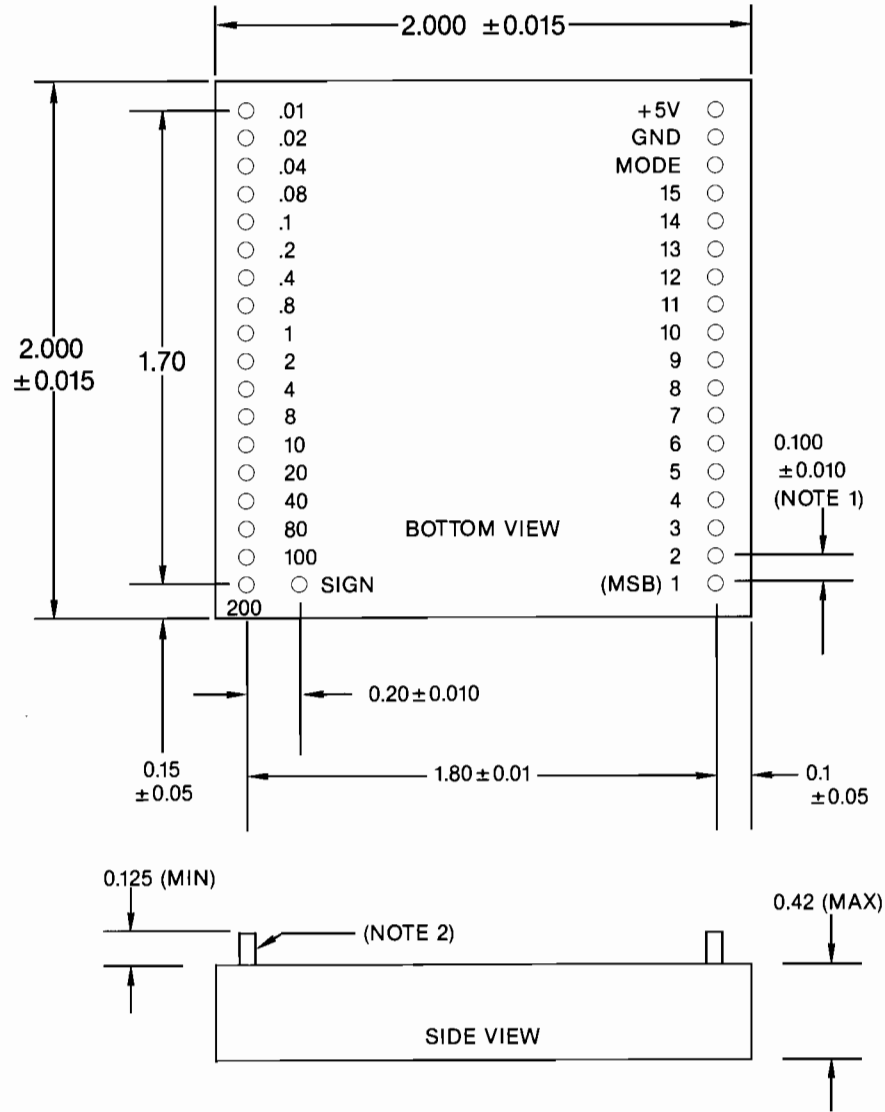
The converter consumes very little power and can be pin programmed via the MODE pin to output either unipolar (0° to 359.99°) or bi-polar (0° to ±180.00°) angle ranges.

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

### SPECIFICATIONS

Parameter	Value
<b>Binary Input</b>	
Resolution	15 bits
Format	Parallel binary angle, positive logic Bit 1 = 180° Bit 15 = 0.011°
Fan-in	1 HC load
<b>BCD Output</b>	
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
<b>Sign Output</b>	
Format	Logic "0" = + Logic "1" = -
Fan-out	2 TTL loads
<b>Power Supply</b>	
Voltage	+5V ±5%
Current	20mA max
<b>Temp. Range</b>	
Operating	0° to 70°C
Storage	-55° to +125°C
<b>Dimensions</b>	2.0" x 2.0" x 0.4"
<b>Weight</b>	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.