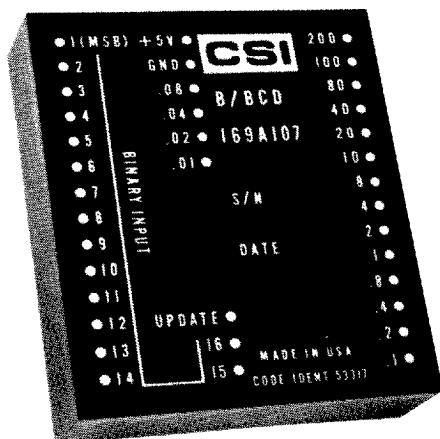




FEATURES

- 16 or 19 bit input resolutions
- 5 or 6 decade outputs
- Conversion time to 2 microseconds
- Low power types available

APPLICATION

Angle Display Systems and Instrumentation

GENERAL DATA

The outputs of most synchro/resolver to digital converters are given in natural binary angle form. While this format is suitable for direct digital computer interfacing, it is not convenient or readily adaptable for direct conversion to visual angular display. CSI's Series 169 converters are specifically designed to meet this particular interface requirement.

The 169 series are binary to BCD converters which are scaled to be compatible with binary angular measurements (BAMS), where MSB = 180°, next MSB = 90°, etc. Models are available with either 5 or 6 decade outputs, 8421 coding, as indicated.

SPECIFICATIONS

Parameter	169A107	169A108
Binary Input	16 bits	19 bits
Full Scale Output	359.99°	359.999°
Rounding Error	± 0.01°	± 0.0009°
Conversion Time	2 us	75 ms
Fan-In (Loads)	5LSTTL	0.2LSTTL
Fan-Out (Loads)	5TTL	3TTL
Power Supply	+5V @550 mA	+5V @5 mA
Temperature Range*	0 to 70°C	
Weight	6 oz	
Size of Package	2.625" x 3.125" x 0.82"	

*TEMPERATURE RANGE OPTIONS

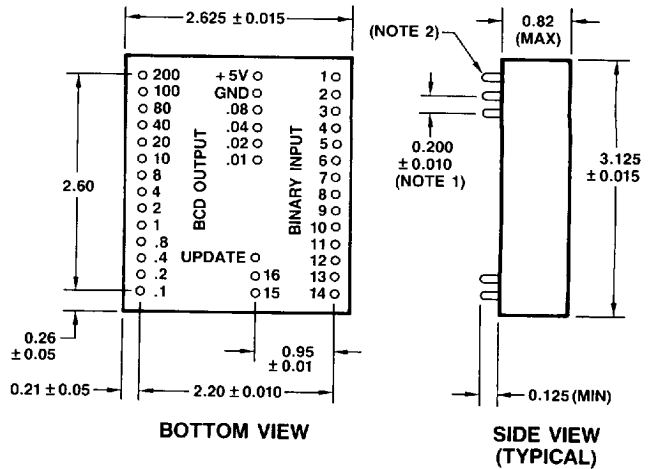
While standard operating temperature ranges are from 0 to 70°C, extended temperature models designed to meet -55° to +105°C are optionally available. When ordering, add the suffix -ET to the model number of the units desired.

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MECHANICAL OUTLINES

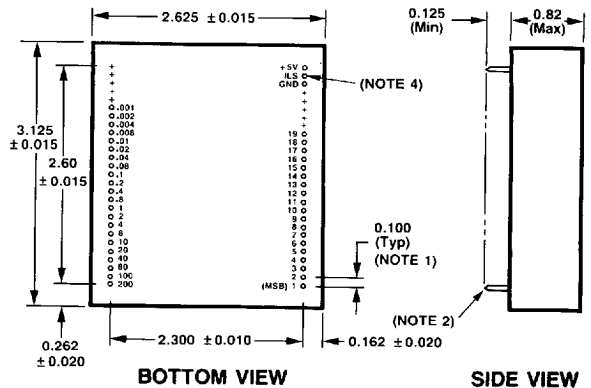
MECHANICAL OUTLINE —169A107



NOTES:

1. Noncumulative
2. Rigid 0.040 diameter pins for solder-in or plug-in applications.
3. Dimensions are in inches unless otherwise specified.

MECHANICAL OUTLINE —169A108



NOTES:

1. Noncumulative
2. Rigid 0.025 diameter pins for solder-in or plug-in applications.
3. Dimensions are in inches unless otherwise specified.
4. ILS pin is used to pull up or pull down inputs. Tie to +5V to pull up or tie to GND to pull down.

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