binary angle to BCD converter
scalable output 19 bit
series 169A200

FEATURES
- 19 bit input resolution
- Scalable 6 decade output
- Low Power-50 milliwatt
- +5 volt only

APPLICATIONS
Rescaling of binary data for display
Military and Industrial Displays

GENERAL DATA

The 169A200 series are binary to BCD Converters with a 19 bit binary input (whose full scale is 524,288 counts), and a 6 decade BCD output (8-4-2-1 coding). The unit is suitable for driving a wide range of displays where it is desired to present readings in Engineering units. The BCD output is factory programmable as described by the following equation:

Full Scale BCD = 524,288R

Where R is a number less than 1.

Inputs may originate from a wide variety of sources including (but not limited to) the following:

Analog to Digital Converters
Synchro to Digital Converters
Resolver to Digital Converters
Inductosyn™ to Digital Converters
LVDT/RVDT to Digital Converters
Encoders

SPECIFICATIONS

PARAMETER	VALUE
Binary Input	19 bits (524,288)
Full Scale Output	Customer specified
Rounding Error	+/−0.0003%
Conversion Time	400 milliseconds max.
Fan-in	100K Pull-up or pull-down
Fan-out	3 TTL loads
Power Supply	+5V @ 10 ma max
Temperature Range	0 to +70° C −55° to +105° C (ET)
Weight	6 ounces
Size	2.625″ x 3.125″ x 0.8″

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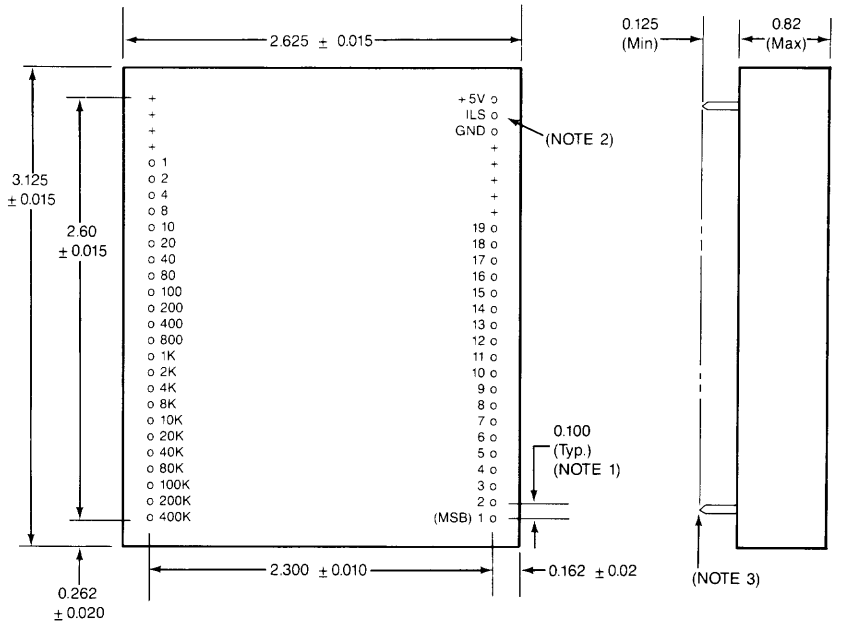
MECHANICAL OUTLINE



BOTTOM VIEW **SIDE VIEW**

NOTES:

1. Non-Cumulative
2. Input bits 1 thru 19 can be configured as either pull-up or pull-down; for pull-up tie ILS pin to +5V; for pull-down tie ILS to GND. Input resistors are 100K Ohms.
3. Rigid 0.025 diameter pins suitable for solder-in or plug-in applications.

ORDERING INFORMATION

Consult factory for part number assignment.