DALLAS
SEMICONDUCTOR

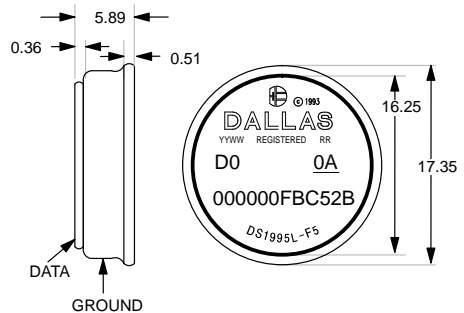# DS1995
16Kbit Memory iButton™

SPECIAL FEATURES

- 16384 bits of read/write nonvolatile memory

- 256–bit scratchpad ensures integrity of data transfer

- Overdrive mode boosts communication to 142k bits per second

- Memory partitioned into 256–bit pages for packetizing data

- Data integrity assured with strict read/write protocols

- Operating temperature range from −40°C to +70°C

- Over 10 years of data retention

COMMON iButton FEATURES

- Unique, factory–lasered and tested 64–bit registration number (8–bit family code + 48–bit serial number + 8–bit CRC tester) assures absolute traceability because no two parts are alike

- Multidrop controller for MicroLAN™

- Digital identification and information by momentary contact

- Chip–based data carrier compactly stores information

- Data can be accessed while affixed to object

- Economically communicates to bus master with a single digital signal at 16.3k bits per second

- Standard 16 mm diameter and 1–Wire protocol ensure compatibility with iButton family

- Button shape is self–aligning with cup–shaped probes

- Durable stainless steel case engraved with registration number withstands harsh environments

- Easily affixed with self–stick adhesive backing, latched by its flange, or locked with a ring pressed onto its rim

- Presence detector acknowledges when reader first applies voltage

- Meets UL#913 (4th Edit.); Intrinsically Safe Apparatus, Approved under Entity Concept for use in Class I, Division 1, Group A, B, C and D Locations (application pending)

F5 MICROCAN™

All dimensions are shown in millimeters.

ORDERING INFORMATION

DS1995L–F5   F5 MicroCan

EXAMPLES OF ACCESSORIES

DS9096P   Self–Stick Adhesive Pad
DS9101   Multi–Purpose Clip
DS9093RA   Mounting Lock Ring
DS9093F   Snap–In Fob
DS9092   iButton Probe

iButton DESCRIPTION

The DS1995 Memory iButton operates nearly identically to the DS1996. The main differences are: 16K bits of memory organized as 64 pages of 32 bytes and a family code of 0A hexadecimal. For further details please refer to the DS1996 data sheet.