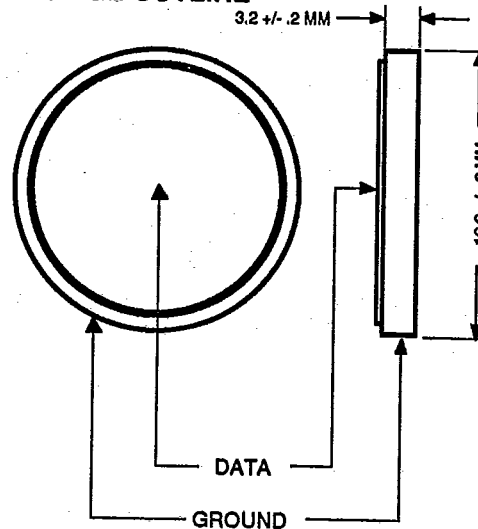


DALLAS
SEMICONDUCTOR**DS199x**
Touch Devices

T-65-15

FEATURES

- Identification by touch
- Nonvolatile Internal memory chip
- Reads or writes in less than 20 ms while affixed to an object
- Low-cost and reusable
- Chip-based Identifier communicates to host reader via One-Wire™ protocol
- Optional adhesive backing for attachment to an object
- Coin-shaped for easy handling and insertion
- Round shape for self-aligning touch contact
- Durable stainless steel case
- Data signal surface and ground rim simplify contact alignment
- Operating temperature range -20° to +50° C
- Applications include Identification, workplace monitoring, manufacturing notations, tool management, inventory control, record keeping, parts tracking, security and access control

PACKAGE OUTLINE**CONTACTS**

Rim	Ground
Surface	Data

ORDERING INFORMATION

1990	Touch Serial Number
1991/1991L*	Touch MultiKey
1992/1992L*	Touch Memory™ (1Kx1)

* L denotes 5 year data retention; standard is 2 years.

DESCRIPTION

The DS199x Touch Device is a nonvolatile memory in a coin-shaped package that can be read or written with a simple touch using the One-Wire™ protocol. The equivalent of silicon self-stick notes, Touch Devices can be affixed to an object or carried by a person for identification.

They are low-cost and reusable. Signaling necessary for reading or writing is reduced to just one data conductor plus ground and the familiar round coin shape ensures easy handling.

T-65-15

OVERVIEW

All communications to and from Touch Devices are accomplished via a single interface lead. Data contained within a Touch Device is accessed through the use of time slots using the One-Wire™ protocol. No markings are provided on the Touch Device container. Instead, each

device family has a specific identification number lasered into the device which is read by the user to identify the part type.

For specific information on the function of each device, refer to Table 1.

TABLE 1

Touch Device	Description	Related Chip
DS1990 Touch Serial Number	Unique 48-bit serial number, lasered-in at the factory.	DS2400 Silicon Serial Number
DS1991 Touch MultiKey	3 password-protected 384-bit partitions, 1 512-bit scratchpad memory.	DS1205 MultiKey
DS1992 Touch Memory	1Kx1 read/write NV SRAM	

PACKAGING OPTIONS

DS199x Touch Devices can be ordered with adhesive backings or mounted on the DS9093 Touch Device Mount. Contact the Marketing Department for availability and minimum order requirements. DS199x Touch Devices are shipped standard without adhesive material.