

## Data Sheet

# 13.56 MHz Vicinity Key Fob Transponder



The Vicinity Key Fob Transponder from Texas Instruments is compliant with the ISO/IEC 15693 global standard for contactless integrated circuit cards operating at 13.56MHz. The key ring is based on TI's Tag-it™ Smart Label technology and allows interoperability of products from multiple manufacturers. With a user memory of 2K bits organized in 64 blocks, the 13.56 MHz key Fob enables advanced solutions in a variety of markets, to include payment & loyalty applications, access control & security, ticketing, public transportation, production control, warehousing & item level tagging.

### Specifications:

Part Number	RF-HDT-KMAB
Supported Standard	ISO 15693-2 & 3
Operating frequency	13.56 MHz
Typical activation field strength read (at +25°C)	109 dBμA/m
Typical activation field strength write (at +25°C)	112 dBμA/m
Factory programmed Read Only Number	64 bits
Memory (user programmable)	2K bits organized in 64 x 32-bit blocks
Typical programming cycles (at +25°C)	100,000
Data retention time (at +55°C)	> 10 years
Simultaneous Identification of Tags	Up to 50 tags per second (reader/antenna dependant)
Operating temperature	-25°C to +50°C
Storage temperature	-25°C to +50°C
Case Material	PVC
Key ring Color	Solid white
Dimensions	54mm x 28mm x 1.7mm ± 0.3mm (Thickness on eyelet 3.4mm ± 0.3mm)
Key ring hole diameter	4.8mm ± 0.1mm
Key ring hole reinforcement	Metal Eyelet (Brass colored)
Weight	3.7 grams
Delivery	250 units per box
Printing	Front side printed with TI RFID Systems logo
Programming for Access Control Applications	TI Standard and Customer Specified programming format available as an option

For more information, contact the sales office or distributor nearest you. This contact information can be found on our web site at: <http://www.ti-rfid.com>

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