

## Keyring Tag

### Read Only / Read Write



### Specifications:

Part Number	RI-TRP-RFOB-01	RI-TRP-WFOB-01
Functionality	Read Only	Read/W rite
Memory (Bits)	64	80 *
Memory (Pages)	1	1
Operating Frequency	134.2 kHz	
Modulation	FSK (Frequency Shift Keying) 134.2 kHz / 123.2 kHz	
Transmission Principle	HDX (Half Duplex)	
Power Source	Powered from the reader signal (batteryless)	
Typical Reading Range	δ 60 cm**	
Typical Programming Range	---	30 % of specified reading range
Typical Reading Time	70 ms	
Typical Programming Time	---	309 ms
Typical Programming Cycles @ 25 °C	---	100,000
Operating Temperature (Read)	-40 to +85°C	
Operating Temperature (Program)	---	-40 to +70°C
Storage Temperature	-40 to +85	
Case Material	Plastic (ABS) / glass insert (Transponder)	
Protection Class	Hermetically sealed (Transponder)	
EMC	Programmed code is not affected by normal electromagnetic interference or x-rays	
Signal Penetration	Transponder can be read through virtually all non-metallic material	
Drop Test	Dropped 10 times from a height of 1.90 m onto concrete	
Dimensions	□ 10.5 mm * 37.5 mm ± 0.3 mm	
Weight	Approx. 4.5 g	
Reference Standard Transponder	23 mm Glass Encapsulated Transponder Reference Manual # 11-09-21-023	

\* We recommend that you split each 80 bit page into 64 user programmable bits plus a 16 bit wide CRC CCITT Block Check Character as is done by TI-RFID LF readers.

\*\* Depending on RF regulation in country of use, the Reader Antenna configuration used, and the environmental conditions. *Texas Instruments reserves the right to change its products and services at any time without notice. TI provides customer assistance in various technical areas, but does not have full access to data concerning the uses and applications of customers products. Therefore, TI assumes no responsibility for customer product design or for infringement of patents and/or the rights of third parties, which may result from assistance provided by TI.*



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