



## **Data Sheet**

## **Card Transponder**



## Specifications:

Part number	RI-TRP-R4FF	RI-TRP-W4FF
Functionality	Read Only	Read/Write
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	≤ 100 cm**	
Typical Programming Range		30 % of specified reading range
Typical Reading Time	70 ms	
Typical Programming Time		309 ms
Typical Programming Cycles		100,000
Operating Temperature	-25 to +50°C (According to ISO 7810)	
Storage Temperature	-25 to +50°C (According to ISO 7810)	
Case Material	PVC (Polyvinylchloride), white, without print	
Chemical Protection	According to ISO 7810	
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	
Dimensions	85.5 mm ± 0.4 mm * 54 mm ± 0.4 mm * 1.3 mm ± 0.1 mm	
Weight	12 g	

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.

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

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<sup>\*\*</sup> Depending on RF regulation in country of use, the Reader Antenna configuration used, and the environmental conditions.