

## **Data Sheet**

## 50mm Glass Transponder



## Specifications:

Part Number	RI-TRP-W9TB
Functionality	Read / Write
Memory (Bits)	80 *
Memory (Pages)	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	≤ 165 cm **
Typical Programming Range	30 % of specified reading range
Typical Reading Time	70 ms
Typical Programming Time	309 ms
Typical Programming Cycles (at 25°C)	100 000
Operating Temperature	-25 to + 70°C
Storage Temperature	-40 to +85°C
Case Material	Glass
Protection Class	Hermetically sealed
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
Mechanical Shock	IEC 68-2-27, Test Ea; 30 g, half sine, 6 ms, 2 axis, 6 shocks/axis
Vibration	IEC 68-2-6, Test Fc; 20-60 Hz: 0.35mm ampl.
	60-500 Hz: 5 g, 2axis, 10 cycles/axis, 1 oct/min
Dimensions	Ø 16 mm ± 0.5 mm x 50 mm ± 0.5 mm
Weight	approx. 20 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 readers.

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

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