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	∅ 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.

** Depending on RF regulation in country of use, the Reader Antenna configuration used, and the environmental conditions.

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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