Data Sheet

32mm Glass Transponder

Specifications:

Part number	***RI-TRP-RR2B***	***RI-TRP-WR2B***	***RI-TRP-DR2B***	***RI-TRP-IR2B***
Functionality	Read Only	Read/Write	MPT	SAMPT
Memory (Bits)	64	80*	1360*	1360*
Memory (Pages)	1	1	17*R/W	17*R/W***
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 Read Time	70 ms		86 ms	
Typical Programming Time	---	309 ms	293 ms	341 ms
Typical Programming Cycles	---	100,000		
Operating Temperature (Read)	-25 to +85°C			
Operating Temperature (Program)	---	-25 to +70°C	-25 to +85°C	
Storage Temperature	-40 to +100°C (+125°C for total 1000 hours)			
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; 300 g, half sine, 3 ms, 2 axes			
Vibration	IEC 68-2-6, Test Fc; 3 g, 5 - 50 Hz, 2 axes, 24 hours per axis 20 g, 10 - 2000 Hz, 2 axes, 2.5 hours per axis			
Dimensions	∅ 3.85 ± 0.05 mm * 31.2 ± 0.6 mm		∅ 3.85 ± 0.05 mm * 32.2 ± 0.6 mm	
Weight	0.8 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.

*** 24 bits Selective Address width.

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**