

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 re	eading 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	Ø 3.85 ± 0.05 mm *	\varnothing 3.85 ± 0.05 mm * 31.2 ± 0.6 mm \varnothing 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.

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

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.

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

^{*** 24} bits Selective Address width.