RADIO FREQUENCY IDENTIFICATION SYSTEMS

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		the		
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	\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	No.			

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

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

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