

Data Sheet

120mm Cylindrical Transponder



Specifications:

Part number	RI-TRP-R9TD	RI-TRP-W9TD	RI-TRP-D9TD
Functionality	Read Only	Read/Write	MPT
Memory (Bits)	64	80*	1360*
Memory (Pages)	1	1	17*RW
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	≤ 200 cm**		
Typical Programming Range	---	30 % of specified reading range	
Typical Reading Time	70 ms		86 ms
Typical Programming Time	---	309 ms	293 ms
Typical Programming Cycles	---	100,000	
Operating Temperature	-25 to +85°C	-25 to +70°C	-25 to +85°C
Storage Temperature	-40 to +100°C (Total +125°C for 1000 hours, +150°C for 100 hours, +175°C for 5 hours)		
Case Material	Reinforced Poly-Ether-Imide (PEI), black		
Protection Class	IP 67		
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; 200 g, half sine, 3 ms, 2 axes, 6 shocks per axis		
Vibration	IEC 68-2-6, Test Fc; 20 g, 20 - 500 Hz, 2 axes, 10 cycles per axis		
Dimensions	Ø 21 mm ± 0.8 mm * 121 mm ± 2 mm		
Weight	60 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 LF 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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