

Data Sheet

Mount-on-Metal Transponder



Specifications:

Part Number	RI-TRP-R9VS	RI-TRP-W9VS
Functionality	Read Only	Read/Write
Memory (Bits)	64	80*
Memory (Pages)	1	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	≤ 120 cm**	
Typical Programming Range	---	30 % of typical reading range
Typical Reading Time	70 ms	
Typical Programming Time	---	309 ms
Typical Programming Cycles	---	100,000
Operating Temperature	-25 to +70°C***	
Storage Temperature	-25 to +85°C	
Case Material	Polypropylene, black	
Protection Class	IP 67 (product revision –11)	
Mounting	With screws or rivets on aluminum, iron or steel	
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, 3 axes, 6 shocks per axis	
Vibration	IEC 68-2-6, Test Fc; 20 g, 20 - 500 Hz, 3 axes, 10 cycles per axis	
Dimensions	102 mm ± 1 mm * 36 mm ± 1 mm * 16.5 mm ± 1 mm	
Weight	43 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.

*** Reduced operating temperature of 0 to +70°C if used with Series 2000 Standard Reader (RI-STU-MB2A/MB6A) or Standard RFM (RI-RFM-104B)

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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