

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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