

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.

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.

^{***} 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)