

Data Sheet

30mm Disk Transponder



Specifications:

Part number	RI-TRP-R9QL	RI-TRP-W9QL
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	δ 60 cm**	
Typical Programming Range	---	30 % of specified reading range
Typical Reading Time	70 ms	
Typical Programming Time	---	309 ms
Typical Programming Cycles @25°C	---	100,000
Operating Temperature	-25 to +85°C	-25 to +70°C
Storage Temperature	-40 to +100°C	
Case Material	Poly-Oxy-Methylen (POM), 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; 1500 g, 1 ms, half sine, 3 axes, 6 shocks per axis	
Vibration	IEC 68-2-6, Test Fc; 25 g, 10 - 2000 Hz, 3 axes, 10 cycles per axis	
Dimensions	□ 29.4 mm ± 0.5 mm * 8.4 mm ± 0.4 mm	
Weight	8 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.

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