

## 23 mm Disk- Inlay

### Specifications:

Part Number	RI-INL-R9QK-20	RI-INL-W9QK-20
Functionality	Read Only	Read Write
Memory (Bits)	64	64
Memory (Pages)	1	1
Operating Frequency	134.2 kHz	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 (battery-less)	
Typical Reading Range	> 50 cm ***	
Typical Reading Time	70 ms	
Reading Activation Field Strength @25 °C	120.5 dBµA / m	
Programming Field Strength @25 °C		28.5 dBµA / m
Operating Temperature	-25 to +70°C	
Storage Temperature	-25 to +70°C	
EMC	Programmed code is not affected by natural 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, 3 ms	
Vibration	IEC 68-2-6, Test Fc; 5 g, 10 - 500 Hz	
Dimensions	Ø 23.0 mm x 12.45 mm x 2.7 mm	
Weight	3 g ± 0.5 g	
Reference / Customer Spec.	11-09-	
<b>ISO Compliance 11784 / 11785</b>		
Numbering Scheme	Ind. Code	BDE
ID Range (Hex) from		
ID Range (Hex) to		

Preliminary

\*\* Overmoulding can impact resonance frequency

\*\*\* 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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