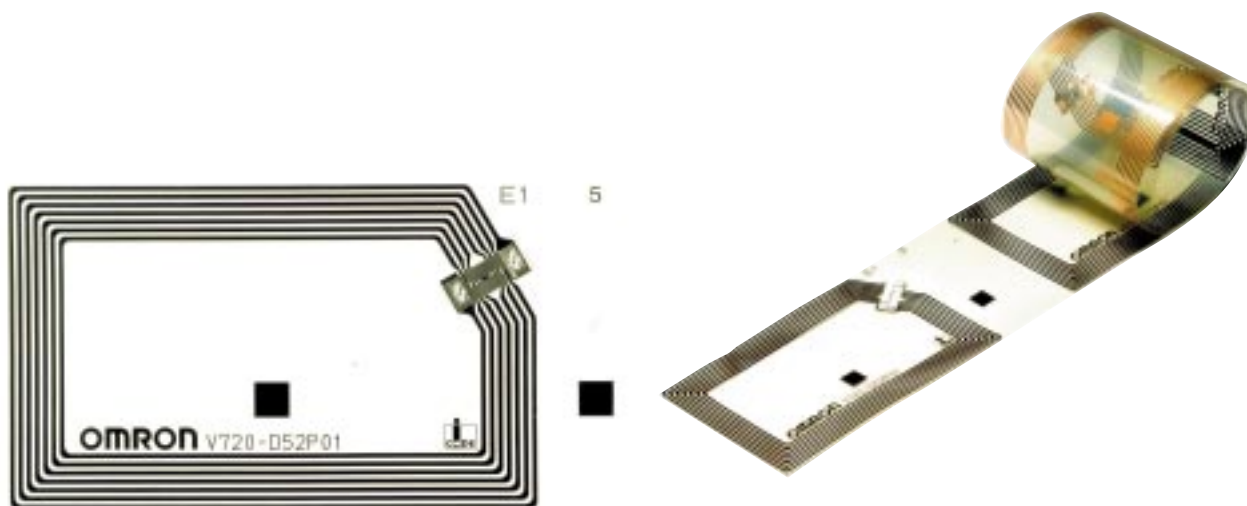


# Tag Inlets V720-D52P01-R□K



V720-D52P01-R1K (1,000 pcs.)  
V720-D52P01-R5K (5,000 pcs.)

## ■ Product Description

Smart Labels are Radio Frequency Identification (RFID) tags from OMRON that conform to the international standard ISO 15693. Smart Labels are super thin and highly flexible, making them the most cost-effective of all ID tag products to date, and well suited to a wide range of applications.

- Airport Baggage Handling Systems
- Parcel Services
- Libraries
- Retail Logistics

Combined with OMRON's ID Controller and Read Write Antenna, the Tag Inlets are provided for integrators building RFID systems, converters considering marketing of ID tags, and bar code equipment manufacturers who want to add RFID labels to their existing line of bar code labels.

## ■ Features

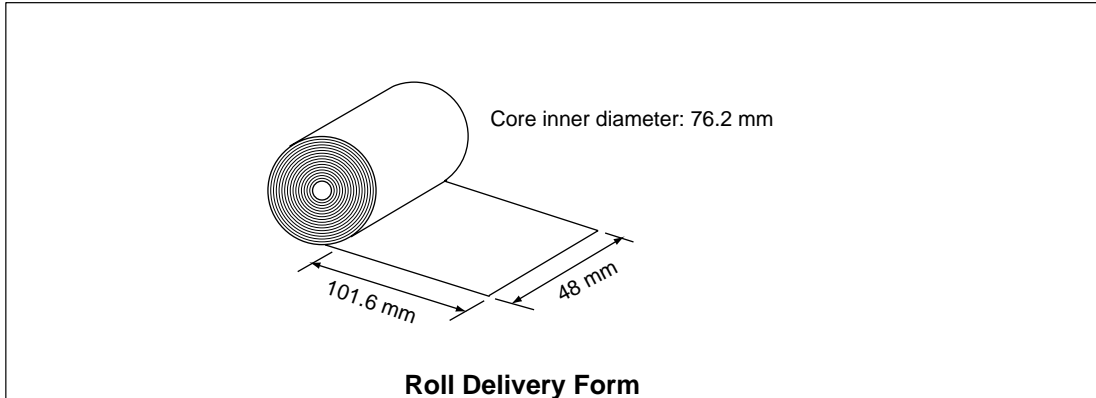
- Communication frequency: 13.56 MHz
- Conform to the international standard ISO 15693 for contactless IC cards.
- Applies I-CODE chip technology from Philips Semiconductors.

## ■ Benefits

- Thin and flexible.
- Withstands bending.
- Easy secondary processing onto business forms (roll-to-roll).

Note: 1. Ask about applications requiring special coil sizes.  
2. I-CODE is a registered trademark of Philips Semiconductors.

## Dimensions of Tag Inlets



### ■ Mechanical Specifications

Item	Specifications
Width	48 ± 0.5 mm
Length per piece	101.6 ± 0.5 mm
Thickness at electronic parts	270 μm
Overall thickness of copper antenna coil	50 ± 10/0 μm

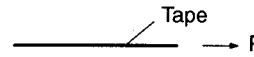
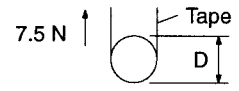
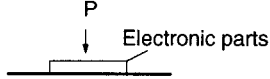
### ■ Electrical Specifications

Item	Specifications
Communication frequency	13.56 MHz
Memory	512-bit EEPROM (user memory area: 352 bits)

### ■ General Specifications

Item	Specifications
Heat resistance	No communications error after leaving the product for 250 hours at 85°C
Cold resistance	No communications error after leaving the product for 250 hours at -30°C
Thermal shock resistance	No communications error after 100 cycles between 85°C and -30°C holding 30 minutes at each temperature.
Vibration resistance	Destruction: 10 to 500 Hz, 1.5-mm double amplitude at 100 m/s <sup>2</sup> in X, Y, and Z directions 10 times each for 11 minutes
Shock resistance	Destruction: 500 m/s <sup>2</sup> three times each in X, Y, and Z directions
Ambient temperature	-10 to 70°C (with no icing)
Ambient temperature in storage	-30 to 70°C (with no icing)

### ■ Delivery Form

Item	Specifications
Appearance	Single-row roll form
Sheet length	Approx. 600 m (for 5,000 pcs.)
Number of functional units of 1 roll	1,000 pcs. and 5,000 pcs.
Roll core	Paper core, inner diameter of 3 inches, outer diameter of 5 inches
Outer diameter of roll	300 mm max. (for 5,000 pcs.)
Weight	3 kg max. (for 5,000 pcs.)
Identification of roll	Label on inner core with roll No., date of production, and type
Tape tension (P)	< 10 N 
Bending diameter (D)	φ 20 mm 
Static pressure (P)	< 10 MPa (10 N/mm <sup>2</sup> ) 

Cat. No. RF501-E1-1 In the interest of product improvement, specifications are subject to change without notice.

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