

Tag Inlets V720-D52P□□-R□K



V720-D52P01



V720-D52P02



V720-D52P03



V720-D52P04

■ 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 integrator 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

- 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).

■ General Specifications 1

	V720-D52P01	V720-D52P02	V720-D52P03	V720-D52P04
Communication frequency	13.56MHz			
Memory capacity	352 bits (user area)			
Memory type	512-bit EEPROM			
Data holding time	10 years after data is written (at 55°C max.)			
Number of data rewrites	100,000 times for each address			
Ambient temperature	-10 to 55°C (with no icing)			
Ambient temperature in storage	-30 to 70°C (with no icing)			
Heat resistance	No communications error after leaving the product for 250 hours at 80°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 2K Hz, 1.5-mm double amplitude at 150 m/s ² in X, Y, and Z directions 10 times each for 11 minutes			
Shock resistance	Destruction: 500 m/s ² three times each in X, Y, and Z directions			

■ General Specifications 2

Item	V720-D52P01	V720-D52P02	V720-D52P03	V720-D52P04
Tape tension (P)	< 10 N			
Bending diameter (D)	> ø20 mm			
Static pressure (P)	< 10 MPa (10 N/mm ²)			

■ Dimensions

Item	V720-D52P01	V720-D52P02	V720-D52P03	V720-D52P04	Dimensions of Tag Inlets Core inner diameter: 76.2 mm Roll Delivery Form
Width	48±0.3mm				
Length per piece	101.6±0.3mm (*1)	48±0.3mm	32±0.3mm	32±0.3mm	
Thickness at electronic parts	270+/-5µm				
Overall thickness of copper antenna coil	50+10µm/-0µm				
Size of antenna coil	46 x 75mm	46 x 43mm	Diameter21	16.5 x 22mm	

*1: Scheduled to change to 96 mm soon.

■ Tag Inlet Roll Delivery Form

Item	V720-D52P01	V720-D52P02	V720-D52P03	V720-D52P04
Appearance	Single-row roll form			
Number of functional units of 1 roll	1,000 pcs. (V720-D52 □□-R □K) and 5,000 pcs. (V720-D52P □□-R □K)			
Sheet length (1,000 pcs./5,000 pcs.)	Approx. 100/500 m	Approx. 50/250 m	Approx. 33/167 m	Approx. 33/167 m
Roll core	Paper core, inner diameter of 3 inches, outer diameter of 5 inches			
Outer diameter of roll (1,000 pcs./5,000 pcs.)	160/260mm	Consult your OMRON dealer.		
Weight (1,000 pcs./5,000 pcs.)	0.7/2.4kg	Consult your OMRON dealer.		
Identification of roll	Label on inner core with roll No., date of production, and type			

■ Communications distance

Read Write Antenna	V720-D52P01	V720-D52P02	V720-D52P03	V720-D52P04
V720-H01-E	0 to 280 mm	0 to 220mm	0 to 80mm	0 to 80mm

Cat. No. S901-E1-2 In the interest of product improvement, specifications are subject to change without notice.

OMRON Corporation

Card Business Promotion Division
 14th Fl., Gate City Osaki West Tower
 1-11-1 Osaki, Shinagawa-ku,
 Tokyo 141-0032 Japan
 Tel: (81)3-5435-2016/Fax: (81)3-5435-2017

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