

UHF Inlays

OMRON

V750 Series

GLOBAL Operation

EPCglobal Class1 Generation2

Omron Inlays

Single Design for Global Use

High Performance

RoHS (Restriction of Hazardous Substance) Compliant



Jomful is Omron's own technology used to manufacture inlays. The term JOMFUL is derived from: Joint Of Metal with Film by ULtrasonic welding. This is the manufacturing process used to join the IC chip to the antenna, producing the strongest bond as compared to other conventional methods. This technology delivers high yield rates, durability, with extremely high level of quality and reliability.

EPCglobal Class1 Generation2 UHF RFID : V750 Series Inlays



Wave

V750-D22M01-1M



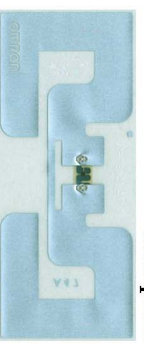
Loop

V750-D22M02-1M



Ninja

V750-D22M03-1M

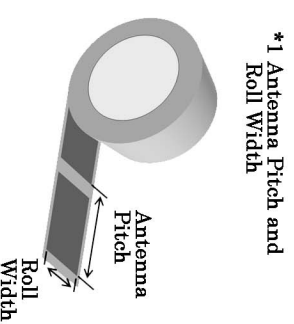


Scorpion

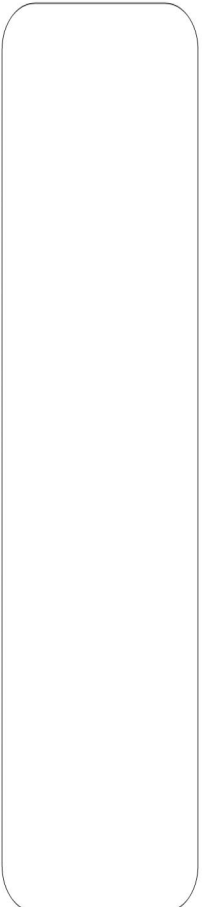
V750-D22M04-1M

Specifications

Model	Wave	Loop	Ninja	Scorpion
V750-D22M01-1M	V750-D22M02-1M	V750-D22M03-1M	V750-D22M04-1M	
Material				
Film:PET, Antenna:Aluminum				
Antenna Size (WxH)	94mm x 16mm [3.7in x 0.63in]	68mm x 70mm [2.68in x 2.76in]	28mm x 28mm [1.10in x 1.10in]	68mm x 28mm [2.68in x 1.10in]
Antenna Pitch(*1)	25.4mm [1.00in]	73.66mm [2.90in]	42mm [1.65in]	35mm [1.38in]
Inlet Thickness	0.06mm [0.0024in] (Antenna Area), max 0.3mm [0.012in] (Strap Area)			
Roll Width (*1)	96mm [3.78in]	72mm [2.83in]	48mm [1.89in]	72mm [2.83in]
IC Chip	Impinj Monza1			
Operating Frequency	860MHz to 960MHz		902MHz to 960MHz	
Protocol	EPCglobal Class1 Generation2 (ISO/IEC 18000-6 Type C)			
Memory	240-bit NVM (Nonvolatile Memory), EPC Allocation 96bits			
Operating Temperature	-20 to +55°C [-4 to +131°F] (with no icing, no condensation)			
Read Range (*2)	5.2m [1.7ft] (Circular Antenna) 7.3m [2.4ft] (Linear Antenna)	4.4m [1.4ft] (Circular Antenna) 6.2m [2.0ft] (Linear Antenna)	1.3m [4ft] (Circular Antenna) 1.8m [6ft] (Linear Antenna)	4.7m [15ft] (Circular Antenna) 6.6m [22ft] (Linear Antenna)
Pieces per Roll	5,000	2,500	5,000	5,000



*1 Antenna Pitch and Roll Width
*2 Reference. Simulated in the US band (902MHz to 928MHz) with the reader power of 4W EIRP. Read range may vary due to environment conditions.



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