UHF Inlays



OMRON

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: W750 Series

Loop



Wave

V750-D22M01-IM

V750-D22M02-IM





Scorpion

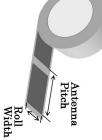


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Pieces per Roll	(Read Range (*2)		perating Te	Memory	Protocol	Operating Frequency	IC Chip	Roll Width (*1)	Inlet Thickness	Antenna Pitch(*1)		Antenna Size (WxH)	Material		Model
oll	,	(*2)		emperature			requency		*1)	ess	ch(*1)		e (WxH)			
5,000	7.3m [24ft] (Linear Antenna)	5.2m [1.7ft] (Circular Antenna)	(860MHz1	Impinj N	96mm [3.78in]	0.06m	25.4mm [1.00in]	[3.7in x 0.63in]	94mm x 16mm		V750-D22M01-IM	wave
2,500	6.2m [20ft] (Linear Antenna)	4.4m [14ft] (Circular Antenna)		-20 to +55C [-4 to +131F] with no icing, no condensation)	240-bit NVM (Nonvolatile Men	EPCglobal Class1 Generation2	to 960MHz	Ionzai	72mm [2.83in]	m [0.0024in] (Antenna Area), r	73.66mm [2.90in]	[2.68in x 2.76in]	68mm x 70mm	ilm:PET, Antenna:Aluminum	V750-D22M02-IM	фоот
5,000	1.8m [6ft] (Linear Antenna)	1.3m [4ft] (Circular Antenna)		nory), EPC Allocation 96bits	(ISO/IEC 18000-6 Type C)	902MHz to 960MHz	48mm [1.89in]	nax 0.3mm [0.012in] (Strap Are	42mm [1.65in]	[1.10in x 1.10in]	28mm x 28mm		V750-D22M03-IM	Ninja		
	6.6m [22ft] (Linear Antenna)	4.7m [15ft] (Circular Antenna)	(with no icing, no condensation)	-20 to +65C [-4 to +149F]			860MHz to 960MHz	Impinj Monza2	72mm [2.83in]	ea)	35mm [1.38in]	[2.68in x 1.10in]	68mm x 28mm		V750-D22M04-IM	Scorpion
	5,000 2,500		5.2m [1.7ft] (Circular Antenna) 4.4m [14ft] (Circular Antenna) 7.3m [24ft] (Linear Antenna) 6.2m [20ft] (Linear Antenna) 5,000 2,500	(with no icing, no condensation)5.2m [1.7ft] (Circular Antenna)4.4m [14ft] (Circular Antenna)1.3m [4ft] (Circular Antenna)7.3m [24ft] (Linear Antenna)6.2m [20ft] (Linear Antenna)1.8m [6ft] (Linear Antenna)5.0002,5005,000	erature	rature -20 to +55C [-4 to +131F] 5.2m [1.7ft] (Circular Antenna) 7.3m [24ft] (Linear Antenna) 5,000 -20 to +55C [-4 to +131F] -20 to +55C [-4 to +131F	EPCglobal Class1 Generation2 (ISO/IEC 18000-6 Type C) 240-bit NVM (Nonvolatile Memory), EPC Allocation 96bits 240-bit NVM (Nonvolatile Memory), EPC Allocation 96bits 250 to +55C [-4 to +131F] (with no icing, no condensation) 5.2m [1.7ft] (Circular Antenna) 4.4m [14ft] (Circular Antenna) 7.3m [24ft] (Linear Antenna) 6.2m [20ft] (Linear Antenna) 1.8m [6ft] (Linear Antenna) 5.00	ency 860MHz to 960MHz 902MHz to 960MHz EPCglobal Class1 Generation2 (ISO/IEC 18000-6 Type C) z40-bit NVM (Nonvolatile Memory), EPC Allocation 96bits erature z-20 to +55C [-4 to +131F] with no icing, no condensation 5.2m [1.7ft] (Circular Antenna) 4.4m [14ft] (Circular Antenna) 1.3m [4ft] (Circular Antenna) 7.3m [24ft] (Linear Antenna) 6.2m [20ft] (Linear Antenna) 1.8m [6ft] (Linear Antenna) 5,000 2,500 5,00	Impinj Monzai 902MHz to 960MHz ency 860MHz to 960MHz 902MHz to 960MHz EPCglobal Class1 Generation	96mm [3.78in] 72mm [2.83in] 48mm [1.89in] Impinj Monza1 902MHz to 960MHz t	o.06mm [0.0024in] (Antenna Area), max o.3mm [0.012in] (Strap Area) op6mm [3.78in] 72mm [2.83in] 48mm [1.89in] ency 860MHz to 960MHz 902MHz to 960MHz pcglobal Class1 Generation (ISO/IEC 18000-6 Type C) 240-bit NVM (Nonvolatile Memory), EPC Allocation 96bits erature -20 to +55C [-4 to +131F] strature -20 m [1.7ft] (Circular Antenna) 4.4m [14ft] (Circular Antenna) 1.3m [4ft] (Circular Antenna) 5.2m [1.7ft] (Linear Antenna) 4.2m [20ft] (Linear Antenna) 1.8m [6ft] (Linear Antenna) 7.3m [24ft] (Linear Antenna) 5.000 2.500) 25.4mm [1.00in] 73.66mm [2.90in] 42mm [1.65in] 0.06mm [3.78in] 0.0024in] (Antenna Area), max 0.3mm [0.012in] (Strap Are o.3mm [1.89in] at o.3mm [1.89in] a	[3.7in x 0.63in] [2.68in x 2.76in] [1.10in x 1.10in] 25.4mm [1.00in] 73.66mm [2.90in] 42mm [1.65in] 0.06mm [0.0024in] (Antenna Area), max 0.3mm [0.012in] (Strap Area) 0.06mm [3.78in] 72mm [2.83in] 48mm [1.89in] 1	xH) 94mm x 16mm 68mm x 70mm 28mm x 28mm [3.7in x 0.63in] [2.68in x 2.76in] [1.10in x 1.10in]) 25.4mm [1.00in] 73.66mm [2.90in] 42mm [1.65in]) 25.4mm [1.00in] 73.66mm [2.90in] max 0.3mm [0.012in] (Strap Are 0.96mm [3.78in] 96mm [3.78in] 72mm [2.83in] 48mm [1.89in] ency 96mm [3.78in] 72mm [2.83in] 902MHz to 960MHz ency 860MHz 500MHz 902MHz to 960MHz ency EPCglobal Class1 Generation2 (ISO/IEC 18000-6 Type C) 240-bit NVM (Nonvolatile Memory), EPC Allocation 96bits erature -20 to +55C [-4 to +131F] -20 to +55C [-4 to +131F] 5-2m [1.7ft] (Circular Antenna) 4.4m [14ft] (Circular Antenna) 1.3m [4ft] (Circular Antenna) 7-3m [24ft] (Linear Antenna) 6.2m [20ft] (Linear Antenna) 1.8m [6ft] (Linear Antenna) 5-00 5,000 5,000 5,000	Film:PET, Antenna:Aluminum xH) 94mm x 16mm 68mm x 70mm 28mm x 28mm xH) 15.7in x 0.63in] 12.68in x 2.76in] [1.10in x 1.10in] 25.4mm [1.00in] 73.66mm [2.90in] 42mm [1.65in] 25.4mm [1.00in] 73.66mm [2.90in] 42mm [0.012in] (Strap Are 2.76mm) 25.4mm [3.78in] 72mm [2.83in] 48mm [1.89in] 25.2mm [3.78in] 72mm [2.83in] 902MHz to 960MHz 25.2mm [3.78in] 240-bit NVM (Nonvolatile Memory), EPC Allocation 96bits 240-bit NVM (Nonvolatile Memory), EPC Allocation 96bits -20 to +55C [-4 to +131F] 25.2m [1.7ft] (Circular Antenna) 4.4m [14ft] (Circular Antenna) 1.3m [4ft] (Circular Antenna) 5.2m [2.7ft] (Linear Antenna) 6.2m [20ft] (Linear Antenna) 1.8m [6ft] (Linear Antenna) 5.000 2,500 2,500	Ny50-D22M01-IM Vy50-D22M02-IM Vy50-D22M03-IM

*1 Antenna Pitch and Roll Width



*2 Reference.
Simulated in the US band (902MHz to 928MHz) with environment conditions. he reader power of 4W EIRP. tead range may vary due to

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