LONG RANGE RFID TAG IDEAL FOR METAL SURFACES



ART915X3030YZ30-IC

30.0 x 30.0 x 3.7 mm



MSL=1

FEATURES

- 4.0 meters read range on metal surfaces
- Wide -30°C to 85°C operating temperature range
- UHF band operation 902 to 928MHz
- Matched for lowest return loss at 915MHz
- Tag incorporates matched Alien H3 RFIC
- 30.0 x 30.0 x 3.7mm height ceramic tag
- ISO 18000-6C/EPC Class1 Gen2 compliant
- Peel & Stick easy installation
- Suitable for non-metal surfaces
- Robust, long life over wide temperature range

APPLICATIONS

- Asset tracking: vehicles, machinery, tools, steel containers, servers, etc.
- Product inventory management: metallic assemblies, chassis, doors, equipment, etc.
- Industrial Internet of Things (IIoT)
- Automatic Vehicle Identification (AVI)
- Wildlife Identification and Waste Management
- Long distance RFID /Non-Stop Access Control

STANDARD SPECIFICATIONS

PARAMETERS	MINIMUM	TYPICAL	MAXIMUM	UNITS	NOTE
Range of Receiving Frequency	902-928			MHz	
Frequency of Lowest Return Loss	915±5			MHz	(Based On 200 x 200mm GND Plane)
Polarization	Linear				
IC Protocol	IS0 18000-6C/EPC Class1 Gen2			Bits	
Memory	96 EPC			Bits	
	512 User			Bits	
IC Type	Alien H3				
Reading Range		4.0		m	
Working Temperature	-30		+85	$^{\circ}\mathrm{C}$	
Storage Temperature	-40		+110	°C	
Frequency Temperature Coefficient		0±10		ppm/°C	
ESD (HBM)			2	KV	2KV Class 2 HBM



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ABRACON IS

ISO9001-2015 CERTIFIED

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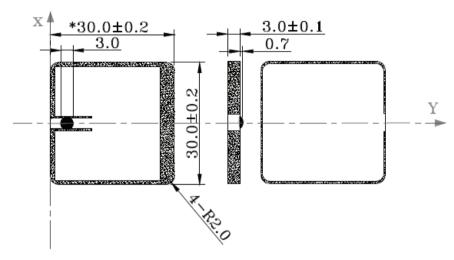
30.0 x 30.0 x 3.7 mm



MSL=1

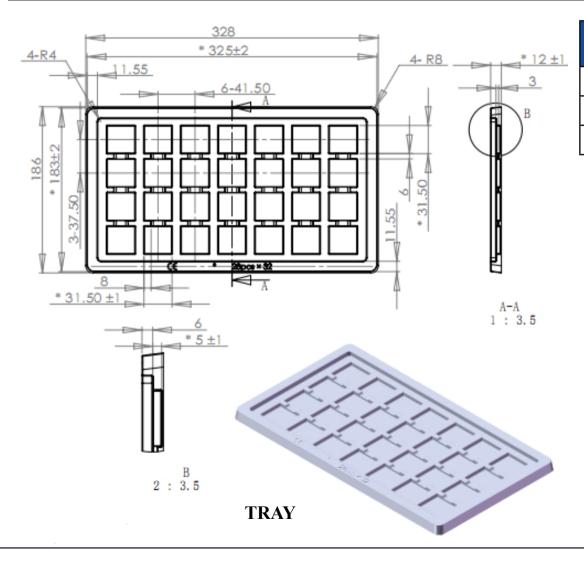
MECHANICAL DIMENSIONS (ALL DIMENSIONS ARE IN mm)

Tolerances are ±0.2mm, unless otherwise specified*



Mounting: Mounted with adhesive/tape (not included).

PACKAGING



PACKAGE TYPE	QUANTITY		
Tray	28 pcs/tray		
Vacuum Bag	196pcs/ Vacuum Bag		
MOQ	196pcs		

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CAUTION

- 1. Do not apply excess mechanical stress to the component body or terminations. Do not attempt to re-form or bend the components as this will cause damage to the component.
- 2. Do not expose the component to open flame.
- 3. This specification applies to the functionality of the component as a single unit. For optimal performance, in-circuit validation is recommended.
- 4. Electrostatic sensitive device; observe standard precautions for handling.

NOTES

- 1. The parts are manufactured in accordance with this specification. If other conditions and specifications which are required for this specification, please contact ABRACON for more information.
- 2. ABRACON will supply the parts in accordance with this specification unless we receive a written request to modify prior to an order placement.
- 3. In no case shall ABRACON be liable for any product failure from in appropriate handling or operation of the item beyond the scope of this specification.
- 4. When changing your production process post-validation, please notify ABRACON immediately.
- 5. ABRACON's products are COTS Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. ABRACON's products are not specifically designed for Military, Aviation, Aerospace, Life-dependent Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property damage.
- 6. All specifications and Marking will be subject to change without notice.

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