LONG RANGE RFID TAG IDEAL FOR METAL SURFACES

ART915X2509EP60-IC

25.0 x 9.0 x 3.7 mm (Pb) RoHS/RoHS II Compliant ESD Sensitive MSL= 1

FEATURES

- 1.8 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
- 25.0 x 9.0 x 3.7mm height ceramic tag
- IS0 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

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 200 mm GND Plane)
IC Protocol	IS0 18000-6C/EPC Class1 Gen2				
Memory		96 EPC		Bits	
	512 User			Bits	
ІС Туре	Alien H3				
Reading Range		1.8		m	
Working Temperature	-30		+85	°C	
Storage Temperature	-40		+110	°C	
Frequency Temperature Coefficient		0±10		ppm/°C	
ESD (HBM)			2	KV	2KV Class 2 HBM



5101 Hidden Creek Lane Spicewood TX 78669 Phone: 512-371-6159 | Fax: 512-351-8858 For terms and conditions of sale please visit: www.abracon.com **REVISED:** 07/13/2016

ABRACON IS ISO9001-2008 CERTIFIED

STANDARD SPECIFICATIONS

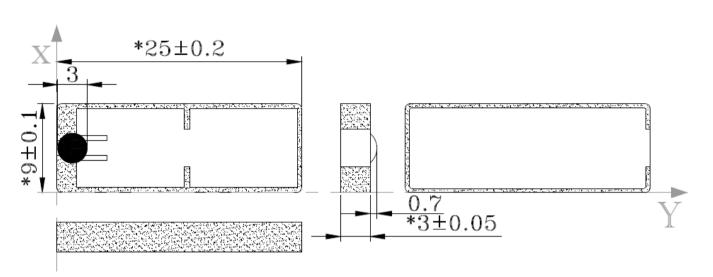
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MECHANICAL DIMENSIONS (ALL DIMENSIONS ARE IN mm)

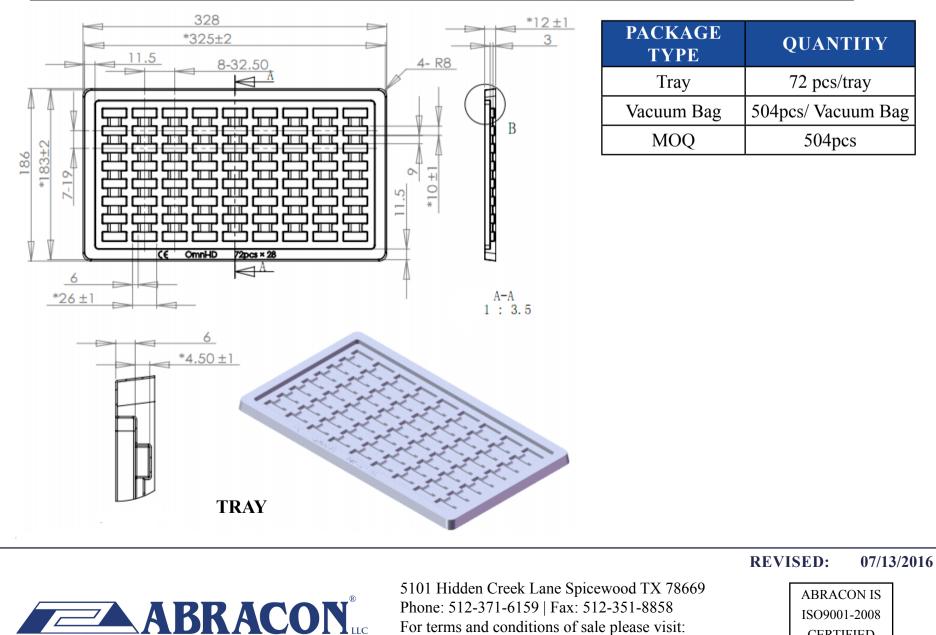
Tolerances are ±0.2mm, unless otherwise specified*



Mounting: The antenna is mounted with double sided adhesive tape that is attached to the underside of the antenna.

PACKAGING

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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-dependant 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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