2M RANGE UHF RFID ON METAL

ART915X050503OP-IC

5.0 x 5.0 x 3.0 mm

RoHS/RoHS II Compliant

MSL = 2

FEATURES

- Long 2.0m read range
- Compatible with any material, including metal
- Passive tag requires no battery or power supply
- Suitable for applications in harsh conditions
- Wide operating temperature -40~+85
- Compliant with ISO 18000-6C/EPC Class1 Gen2
- 902 ~ 928MHz operation
- Utilizing Alien H3 RFID chipset
- Compact 5.0 x 5.0 mm footprint
- 3.0 mm height ideal for low profile requirements

APPLICATIONS

- Local asset tracking for industrial, heavy equipment, and data center applications
- Medical equipment
- Aviation equipment and tools
- Military devices and vehicles
- Oil and gas industry
- Trains and other transportation assets

STANDARD SPECIFICATIONS

Parameters	Min.	Typ.	Max.	Units	Note
Range of Receiving Frequency		866 - 868 902 - 928		MHz	
Frequency of Lowest Return Loss		915±5		MHz	(Based on 150 x 150 mm GND Plane)
Polarization		Linear			
IC Protocol		ISO 18000-6C/EPC Class1 Gen2			
Memory		96 EPC		Bits	
		512 User		Bits	
		64 TID		Bits	
IC Type		Alien H3			
Reading Range		2.0		m	On metal, 4W EIRP
		1.0		m	In metal, 4W EIRP
Operating Temperature	-40		+85	˚C	
Application Temperature	-40		+150	˚C	
IP rate		IP68			

ABRACON®

1501 Hidden Creek Lane Spicewood TX 78751
Phone: 949-546-8000 | Fax: 949-546-8001
For terms and conditions of sales visit:
www.abracon.com

REVISED: 02/26/2019

ABRACON IS
ISO9001-2015
CERTIFIED

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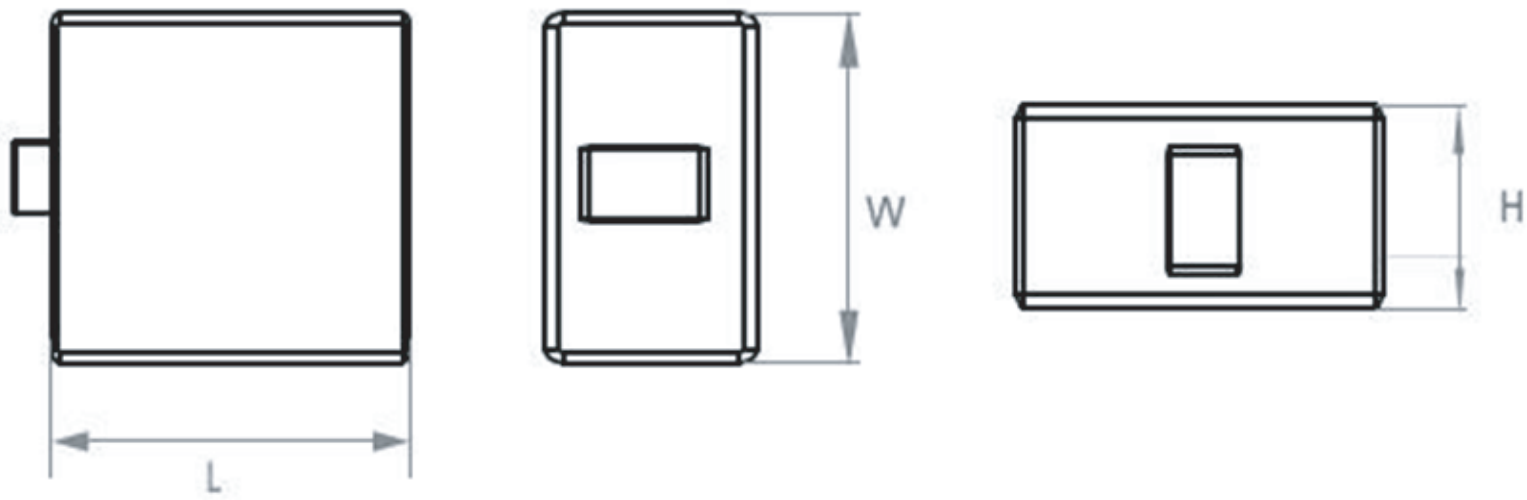
OUTLINE DRAWING | UNIT: mm

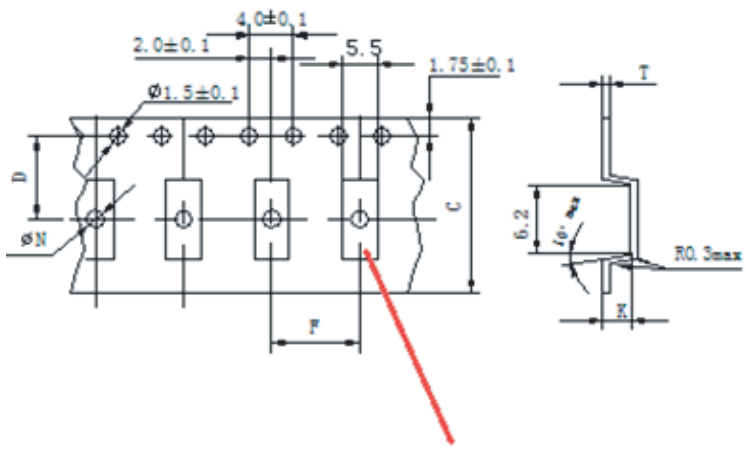
TOLERANCES ARE ±0.2MM, UNLESS OTHERWISE SPECIFIED

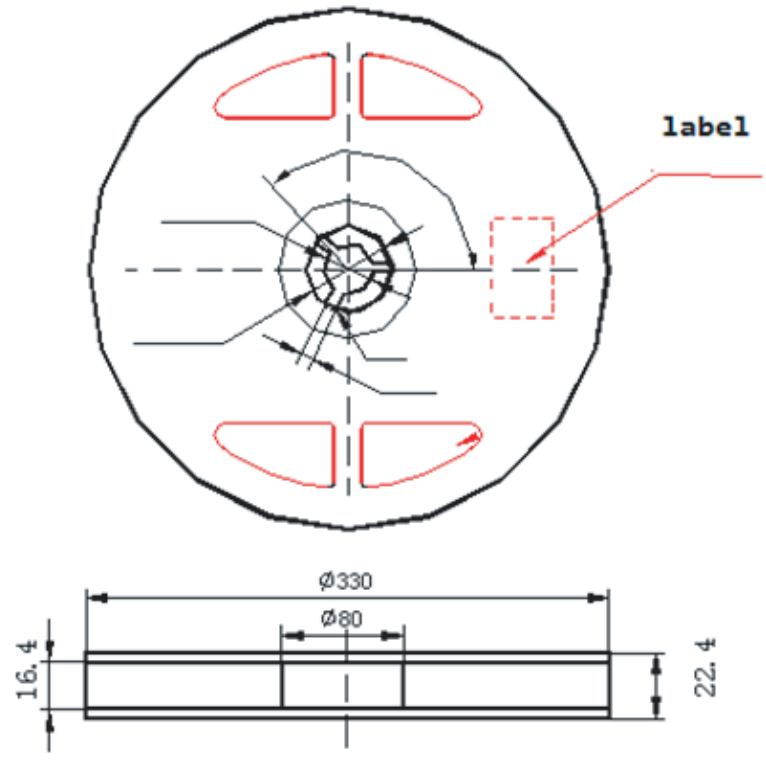


L	W	H
5 TYP	5 TYP	3 TYP

PACKAGING

1000 PCS/REEL, 10 REELS/CARTON





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NOTE

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, 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. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from ABRACON LLC is required. Please contact ABRACON LLC for more information.

6. All specifications and marking will be subject to change without notice.

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