

Unit Cen

The Unit Cen UHF RFID tag are designed for small assets tracking such as tools and metallic parts. The Unit Cen tag is the industry's best sized tag for performance with a read range of up to 2 meters. The Unit Cen tag enables automatic tracking for improved productivity and reduced risks in foreign object debris.

APPLICATIONS

- Small hand tools tracking
- Surgical instruments Tracking
- Weapon management
- Mold management

FEATURES

- Circular design to fit the minor space
- Excellent performance up to 2 meters
- Suitable for general MRO tools
- Designed of optimal RF performance for slim tools



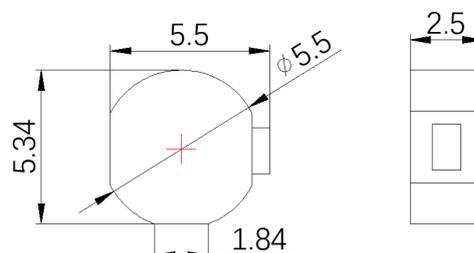
RF Specifications

RF protocol	ISO18000-6C, EPC Class 1 Gen2	
Operating frequency	865-868MHz (EMEA); 920-925MHz (CN, US)	
Chip type	Higgs 3	UCODE 8
Memory configuration	96-Bits EPC (extensible to 480b) 512-Bits User 64-Bits Unique TID	128-Bits EPC 48-Bits Unique TID
Data retention	50 years at operation temperature	
Read range on metal (2W ERP) ¹	Up to 2 M (6.6 ft)	
Read range off metal (2W ERP) ¹	Limited	
Polarization	Linear	

¹Read ranges are achieved by lab testing methodology, the read range will vary with output power of reader and applications, The Unit-Cen tag is designed for optimal performance of slim tools.

Physical Specifications

Tag Materials	Ceramic
Color	Painted Black
Dimensions	Ø 5.5 x 2.5 ±0.15mm (Ø 0.22 x 0.1 ±0.008in)
Weight	0.01 oz (0.29 g)



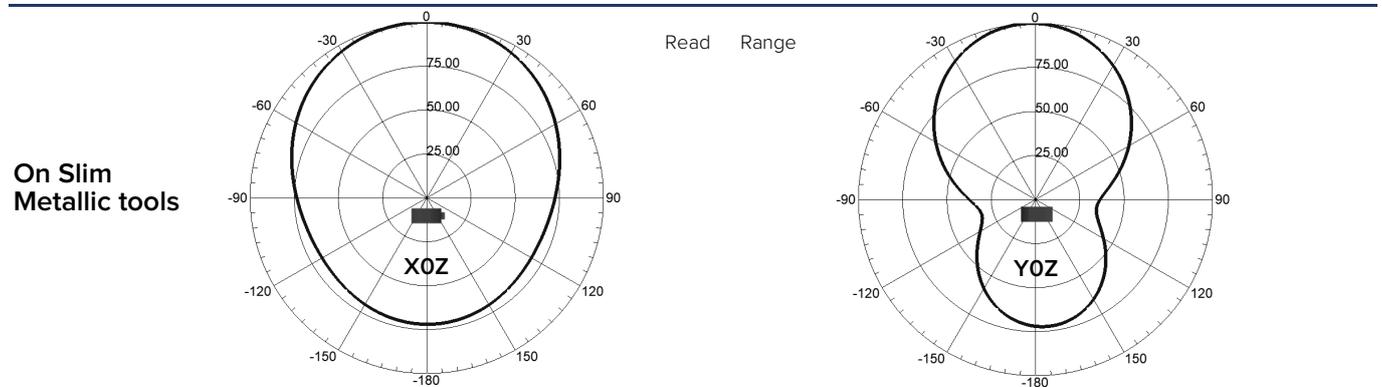
Operational and Environmental Specifications

Operational temperature	-40°F (-40°C) to +185°F (+85°C)
Survivability temperature	-40°F (-40°C) to +392°F (+200°C)
Operational humidity	5% to 95% non-condensing
IP Rating	IP68 at 20°C, 6.6 ft (2 m) 48 hours tested
Shock and Vibration	MIL STD 810-G
Drop spec	Multiple drops to concrete: 4 ft./1.2 m across the operating temperature range
Withstands exposure to	Salt water, Bleach, Cleaning solutions Formic acid, Gasoline, Oil

Mounting System

Adhesive fixings	<ul style="list-style-type: none">• VHB Tape• Silicone sealants• Epoxy
Others	<ul style="list-style-type: none">• Moulding embedded• Heat-shrinkable tubing

Radiation Pattern



Order Information

WJT-C0400-1	Unit Cen EU
WJT-C0400-2	Unit Cen CN/US

Others

Options	Encoding, Self-Adhesive sticker
Warranty	1 year

The performance of the product should always be tested in the actual application conditions. Our recommendations are based on our most current knowledge and experience and the pictures and illustrations presented in this document are for illustration purposes only. As our products are used in conditions beyond our control, we cannot assume any liability for damage caused through their use.

