

Unit Mini

The Unit Mini UHF RFID tags are specially designed for minimal tools metallic parts, The ability of Unit Mini tag to be used for minimal metal applications has opened many doors for source tagging opportunities, Unit Mini tag is the industry's smallest sized for performance with a read range of up to 1.5 meters.

APPLICATIONS

- Minimal hand tools tracking
- Surgical instruments Tracking
- Weapon management
- Minimal parts source tracking



FEATURES

- Infinitesimally tiny size
- Performance of up to 1.5M
- Suitable for small MRO tools
- Exceptional durability



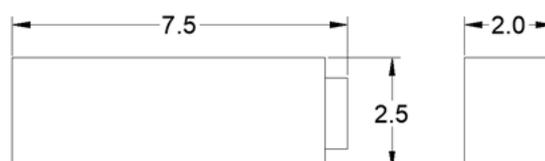
RF Specification

RF protocol	ISO18000-6C, EPC Class 1 Gen2	
Operating frequency	865-868MHz (EU); 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 1.5 M (4.9 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-Mini tag is designed for optimal performance of slim tools.

Physical Specification

Tag Materials	Ceramic
Color	Painted Black
Dimensions	7.5 x 2.5 x 2.0 ±0.2mm (0.3 x 0.1 x 0.08 ±0.008in)
Weight	0.006 oz (0.18 g)



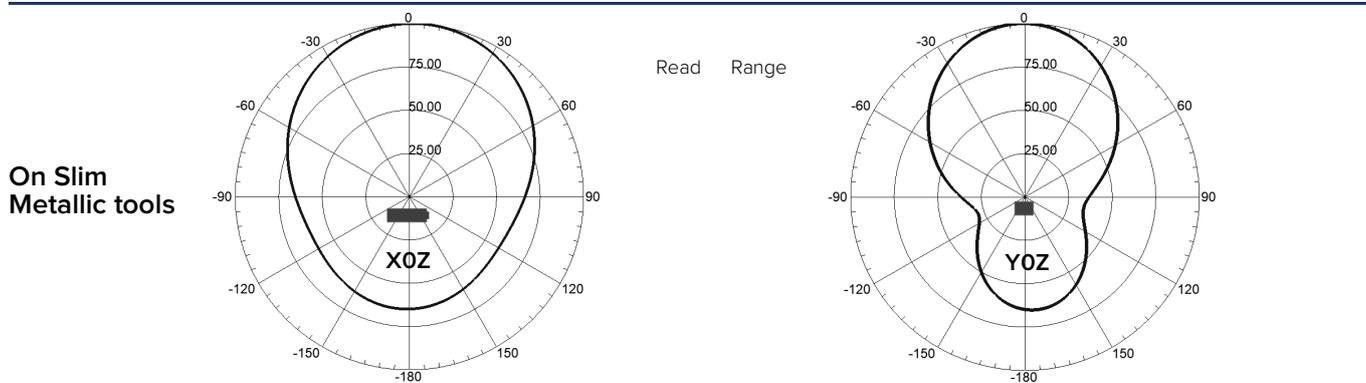
Operational and Environmental Specification

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-C0500-1	Unit Mini EU
WJT-C0500-2	Unit Mini 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.

