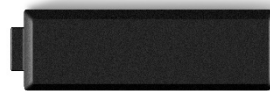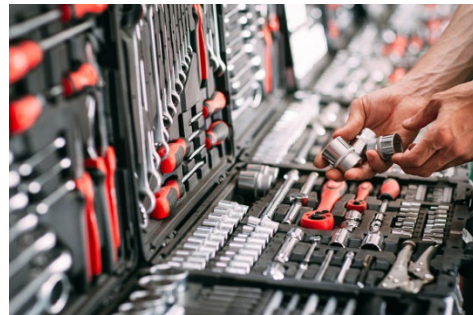# Unit Slim

The Unit Slim UHF RFID tag are designed for small assets tracking such as slim tools and metallic parts, The Unit tag with the industry's best size to performance with a read range of up to 2.0 meters, Unit Slim tags enable 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

- Small form factor
- Brilliant on-metal performance
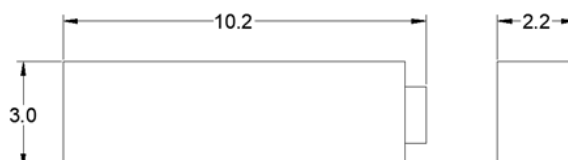- High temperature range
- Exceptional durability

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 2.0 M（6.6 ft)	
Read range off metal (2W ERP)[1]	Limited	
Polarization	Linear	

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

Physical Specifications

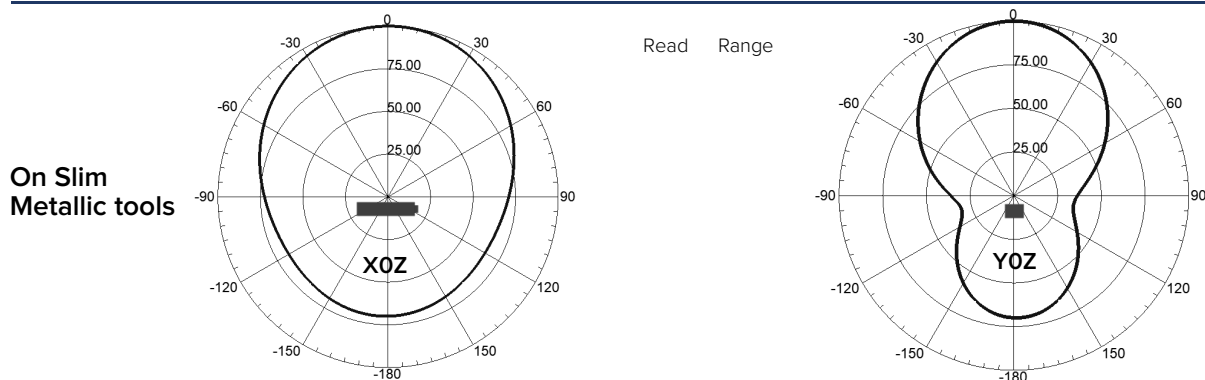|	
Tag Materials	Ceramic
Color	Painted Black
Dimensions	10.2 x 3.0 x 2.2 ±0.2mm（0.4 x 0.12 x 0.087 ±0.008in)
Weight	0.025 oz (0.36 g)

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	• VHB Tape • Silicone sealants • Epoxy
Others	• Mounding embedded • Heat-shrinkable tubing

Radiation Pattern

On Slim Metallic tools

Read   Range

Order Information

WJT-C0300-1	Unit Slim EU
WJT-C0300-2	Unit Slim CN/US

Others

Options	Encoding, Self-Adhesive sticker
Warranty	1 year