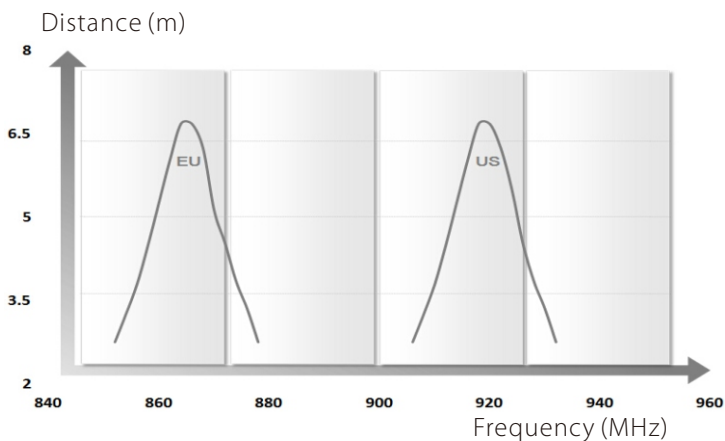31.5mm

7mm

13mm

38mm

PRODUCT DATASHEET

Steel T21

Revolution oF IDeas

With the small form factor and high performance antenna design, Steelcode is best solution for tracking of metal objects. It is ideally suitable for:

- Tools of molding
- Autoclave
- Painting process

Distance (m)

RF Specifications	
RF Air Protocol	EPC Global Class 1 Gen2 ISO18000-6C
Operating Frequency	UHF 866-868 MHz (EU) UHF 902-928 MHz (US) UHF 920-925 MHz (CN)
Environment Compatibility	On metal only
Read Range On-Metal (2W ERP)*	Up to 6 m / 19.7 ft
Read Range Off-Metal (2W ERP)*	-
Polarization	Linear
IC Type	Alien H3
Memory Configuration	EPC 96bit TID 64bit User 512bit

*Read ranges indicated in this datasheet is achieved by using our standard testing methodology. Actual performance will be different if different reader hardware and output power is applied.

Mechanical Sepcifications

Tag Materials	Ceramic
Surface Materials	High performance industry plastic
Dimensions (mm)	13 x 38 x 7 mm
Dimensions (in)	0.51 x 1.5 x 0.28 in
Weight (g)	7.4
Attachment	Rivet hole, 3.4 mm(0.13 in)
	Industry grade adhesive
	High performance epoxy resin
Color	Black by default
	Customized colors are available

Environmetal Sepcifications

Operating Temperature	-30℃ to +85℃ -22℉ to +185℉
Ambient Temperature	-30℃ to +250℃ -22℉ to +482℉
IP Classfication	IP68
Shock and Vibration	MIL STD 810-F
Certifications	CE approved RoHS approved ATEX/IECEx certified
Warranty	2 years

Customization Options

Encoding

Pre-encoding based on customers' specification, including EPC, User memory and other requests.

Appearance

Customized appearance design, including color, logo, barcode, text etc.

CE

RoHS

Ex