

## Product Data Sheet



### Eureka® RMT 38 - UHF RFID Rugged Metal Tag

#### Eureka® RMT 38

The Eureka® RMT38 is a small and thin form factor, highly durable UHF RFID tag for use on metal. The Eureka® RMT38 can be applied to assets in the harshest environments including high and low temperatures, mechanical shock and chemical stress.

The Eureka® RMT38 RFID tags are ideal for a wide variety of identification applications such as those found in production assembly, manufacturing and industrial logistics.

The Eureka® RMT38 can be securely fixed to metal parts using self adhesive tape, screws, epoxy or fixing brackets.

#### Applications Include:

- Assembly Line Tracking
- IT Asset Management
- WIP Tracking
- Identification & Tracking of Moulding Tools
- Identification of metal Containers & Crates



#### Tag

RF Frequency	UHF (EU)
Protocol	EPC Class 1 Gen 2
Chip Spec	Alien Higgs 3
Memory EPC	96 bits (up to 480)
User	512bits
Unique TID	64 bits
Password	32 bits
Kill	32 bits
Total	800 bits

#### Read - Fixed Reader (2W ERP)

On Metal	Upto 2.3m
Off Metal	Upto 1.1m

#### Read - Handheld Reader (500mW ERP)

On Metal	Upto 0.8m
Off Metal	Upto 0.4m

#### Physical

Dimensions Size	38mm x 10mm x 3.2mm
Hole Diameter	2mm
Form Factor	On Metal Tag (FR4)

#### Environmental

Temperature	-45°C to 200°C
IP Classification (Ingression)	IP68
Humidity	85°C/95% RH
Thermal Cycling	Between -45°C & 85°C
High Temperature Oil	@200°C (6 Hours)

#### Services

Labels	Waterproof Polysynthetic 4 Colours 1D or 2D Barcode
Laser Marking	1D or 2D Barcode
Chip Programming	HEXA or ASCII Code

\* Reader 2W ERP, Tag mounted on metal sheet 22cm x14cm,  
Antenna circular polarized 3dB Axial Ratio @ +/- 30 degree

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