TW860-960-Q27-M-B98
UHF Tag

27 [1.06]

27 [1.06]

A   A

A–A

Ø 7.5 [0.30]

5.5 [0.22]

Ø 3.5 [0.14]   2.5 [0.10]

mm [Inch]
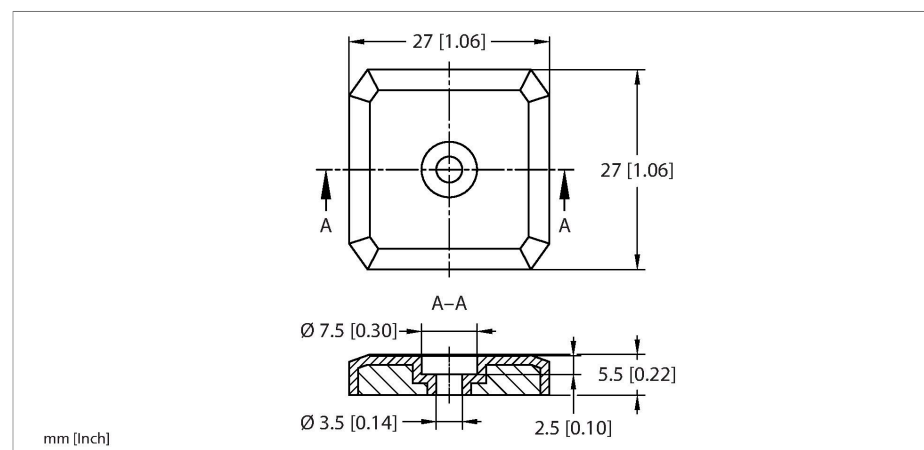
Features

- EEPROM, memory size 98 bytes
- EPC memory size up to 62 bytes
- USER memory size up to 16 bytes
- TID memory: 12 bytes
- For direct mounting on metal

Functional principle

The UHF read/write heads form an air interface the size of which may vary, depending on the combination of read/write head and tag.
The read/write distances mentioned here only represent standard values measured under laboratory conditions and free from any influences caused by materials.
Attainable distances may vary due to component tolerances, mounting conditions, ambient conditions and material qualities, especially when mounted in metal.
Testing of the application under real operating conditions is therefore essential, especially with read/write on-the-fly!
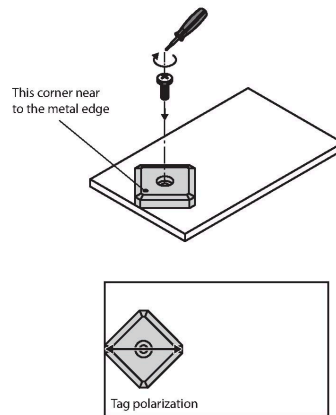
Technical data

Type	TW860-960-Q27-M-B98
ID	100050405
Remark to product	For direct mounting on metal
Data transfer	Alternating electromagnetic field
Technology	UHF RFID
Region (UHF)	Global (860…960 MHz) ETSI (865…868 MHz) FCC (902…928 MHz)
Reading range on metal	6 m (2W ERP)
Memory type	EEPROM
Chip	Impinj M780
Memory size	98 Byte
Memory	Read/Write
Freely usable memory	16 Byte
EPC memory	62 byte
Number of read operations	unlimited
Number of write operations	10^5
Typical read time	2 ms/Byte
Typical write time	3 ms/Byte
Radio communication and protocol standards	ISO 18000-63 EPCglobal Gen 2
Temperature during read/write access	-35…+85 °C
Temperature outside detection range	-35…+85 °C
Design	Hard tag
Housing length	27 mm
Housing width	27 mm

Technical data

Housing height	5.5 mm
Housing material	Plastic
Active area material	Plastic, black
Protection class	IP68
Packaging unit	1

Mounting instructions/Description

This corner near to the metal edge

Tag polarization

3M 300LSE adhesive tape (ideal temperature for application: 21–38 °C).
Standard silicone sealing compound, epoxy resin and polyurethane adhesive with a maximum thickness of 2 mm between the metal surface and the underside of the tag