UHF RFID · 860–960 MHZ · ON-METAL PCB TAG

IDTS-P0307-10

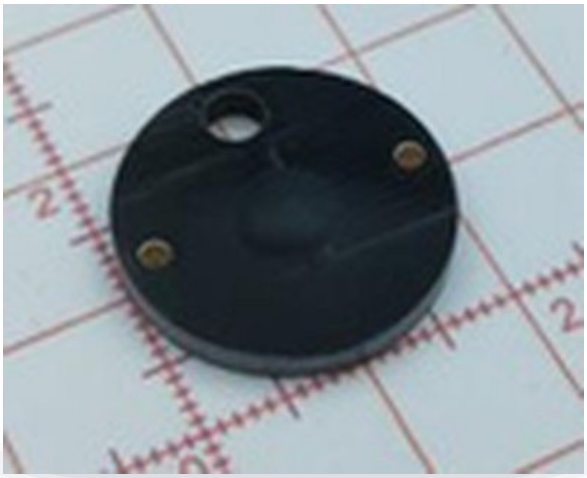
A 3 × 7 × 1 mm on-metal UHF PCB tag for narrow tools and small metal parts.

MQT chip | EPC Gen2 | Up to 20 cm | 3 × 7 × 1 mm | On-metal PCB

A UHF tag just 1 mm thick.

The **Identium IDTS-P0307-10** is a 3 × 7 mm UHF PCB tag only 1 mm thick, for items with almost no flat surface: the shank of a hand tool, the body of a small gauge, a machined insert. It is built as an on-metal tag, so it works sitting directly on steel.

Its MQT chip runs EPC Class 1 Gen2 / ISO 18000-6C across 860–960 MHz, which covers India's 865–868 MHz band. It reads at up to 20 cm, so the reader identifies the one tool in your hand rather than every item in the drawer.



20 cm	3 × 7	1 mm	860–960	Gen2
Read range, up to	Footprint, mm	Thickness	MHz, covers 865–868	ISO 18000-6C

WHAT IT DOES

Read, fix and encode a 1 mm tag

READ
MQT chip, EPC Gen2

- 860–960 MHz, India band included
- Up to 20 cm
- One item at a time, close up
- Desktop reader or handheld

FIX
Bonded flat or set flush

- 3 × 7 mm footprint, 1 mm thick
- Made to sit directly on metal
- Adhesive or epoxy on a flat area
- Or set into a milled pocket

ENCODE
Encode before fitting

- Tool or part number in the EPC
- Encode on a desktop reader
- While the tag is easy to handle
- Check the read once installed

WHERE IT WORKS

Where the tag goes

Small hand tools	Instruments	Small metal parts	Tool crib	Gauges	Item-level reads
Tool shanks and handles	Precision instruments	Machined parts and inserts	Check-out and return	Gauges and inserts	One tool at a time

HOW IT WORKS

From a tagged tool to your tool register

Small tools
Tool shanks, small gauges, instruments and machined inserts

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IDTS-P0307-10
MINIATURE ON-METAL PCB TAG
- Bonded flat or set flush in a pocket
- Works sitting directly on steel
- Holds the tool or part number
- Answers at up to 20 cm
- Identifies the one item in your hand

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UHF reader
Desktop reader at the issue counter or a handheld held near the item

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Your software
Tool crib check-out, calibration records or parts tracking

Readers for close-range work
A UHF desktop reader encodes tags and checks tools at the counter; a UHF handheld reads them on the bench or in the store.

WHY THE P0307-10

Made for parts with no room to spare

3 × 7 mm, 1 mm thick
Fits tool shanks, small gauge bodies and machined inserts where a label or a larger hard tag will not fit.

Built as an on-metal tag
Designed to work in direct contact with metal, so small steel tools join your UHF system.

Item-level reads
Up to 20 cm: bring the reader close and you identify the one tool in your hand, not the whole drawer.

Standard Gen2 readers
EPC Class 1 Gen2 / ISO 18000-6C across 860–960 MHz, including India's 865–868 MHz band.

Sits flush
Bond it in a shallow milled pocket so it sits flush, under a thin non-metallic coating or epoxy.

Easy to encode first
Write the tool or part number on a desktop reader before fixing, while the tag is easy to handle.

Counter or bench
A UHF handheld held near the item or a desktop reader at an issue counter both work well.

A full PCB tag range
For more range in a still-small size, choose from our wider range of PCB and ceramic tags.

CHIP AND AIR INTERFACE

Air interface and reading

PARAMETER	IDTS-P0307-10	NOTES
Chip	MQT	Passive, no battery
Air interface	EPC Class 1 Gen2 / ISO 18000-6C	Any Gen2 UHF reader
Frequency	860–960 MHz	Covers India's 865–868 MHz band
Tag type	UHF on-metal PCB tag	Works in direct contact with metal
Read range	Up to 20 cm	Depends on reader and mounting surface

The asset's shape affects close-range performance: check the read after installation.

AT A GLANCE

- 3 × 7 × 1 mm on-metal UHF PCB tag
- Up to 20 cm, for item-by-item reads
- Bonded flat or set flush into a pocket

SUPPLIED AS

- IDTS-P0307-10 miniature on-metal UHF PCB tags
- Give the quantity and the parts you are tagging with your quotation request

ORDERING

IDTS-P0307-10	Miniature UHF on-metal PCB tag, 3 × 7 × 1 mm, MQT chip, EPC Class 1 Gen2.

SPECIFICATIONS

Technical data

RF AND CHIP	
Frequency	860–960 MHz (covers India's 865–868 MHz band)
Protocol	EPC Class 1 Gen2 / ISO 18000-6C
Chip	MQT
Read range	Up to 20 cm (depends on reader and mounting surface)

READING	
Readers	UHF readers with EPC Class 1 Gen2 on 865–868 MHz

MECHANICAL	
Dimensions	3 × 7 × 1 mm
Shape	Rectangular
Tag type	UHF on-metal PCB tag
Mounting	Bonded in place (adhesive or epoxy)

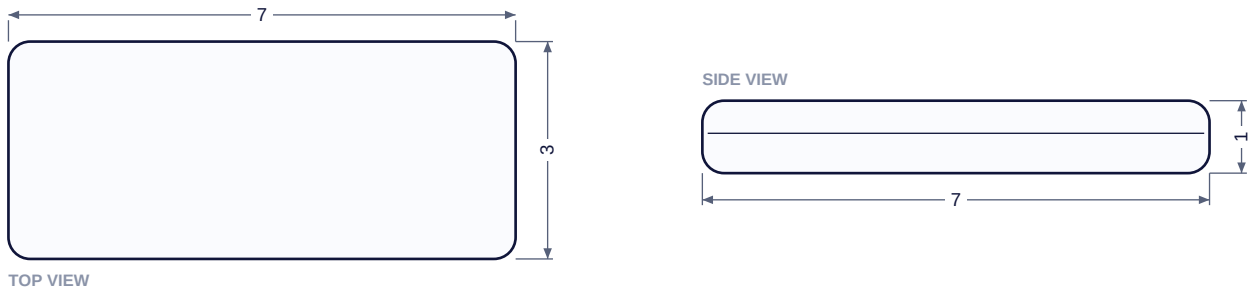
WHICH MINIATURE TAG?

IDTS-P0307-10 or IDTS-P0702-16

	IDTS-P0307-10	IDTS-P0702-16
Size	3 × 7 × 1 mm, flat	7 × 1.6 × 1.6 mm stick
Chip	MQT	M750
Read range	Up to 20 cm	Up to 15 cm
Fixing	Bonded flat or in a shallow pocket	Sealed into a drilled hole or slot
Best for	Flat faces on tools and gauges	Tool handles and fittings with a hole

MECHANICAL

Dimensions



Top and side views, mm.

Fit a sample to your own tools.

Ask for a quotation with the quantity and the items you are tagging, and check the fit and read on a sample part before tagging a full tool set.

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Read range depends on the card or tag, its size and the environment. Specifications are indicative and may change without notice; confirm details for your order in the quotation.