



# Datasheet TX9508-Series SPEAR UCODE 9

## High Performance Global RAIN RFID Inlay for Enhanced Item Performance



Hana's comprehensive ARC-certified RAIN RFID (UHF) inlay program is tailored for use in applications across various industries, such as apparel/retail, agriculture and food production, and supply chain/logistics.

Offered in a wide range of delivery formats, our inlays are ideal for numerous applications demanding exceptional performance.

### Applications

- Asset Management
- Inventory Management
- Supply Chain Automation
- Loss Prevention

### Industry Segments

- Retail
- Healthcare
- Supply Chain & Logistics
- Automotive

### Overview

Antenna Size	95 x 8 mm (3.74 x 0.315")
IC	NXP UCODE9
EPC Memory	96-bit
User Memory	-
TID Memory	96-bit
Frequency Band	UHF 860 - 960 MHz
Protocol	EPC Global Gen 2v2 ISO/IEC 180000-63 Type C
Delivery Formats	Dry Inlay, Wide Web, Paper Face, Wet White Film, Wet Clear

### Quality & Certification

ARC Certified	Yes, Spec F, I, L, O, Q, R, W5, W6, Y2, Z
Inspection	100% Tested
RoHS	EU Directive 211/65/EU and 2015/863 compliant

# Technical Overview

	Dry Inlay	Dry Wide Web	Paper Face
Product Code	TX9508DU9	TX9508D108U9	TX9508DU9-WW
Antenna/Finished Size	95 x 8 mm 3.74 x 0.315"	95 x 8 mm 3.74 x 0.315"	98,38 x 12,38 mm 3.873 x 0.4847"
Web Width	98,4 mm 3.874"	108 mm 4.252"	104,775 mm 4.125"
Pitch	15,875 mm 0.625"	15,875 mm 0.625"	15,875 mm 0.625"
Inlays per Roll	55.000	55.000	18.000
Antenna Material	Aluminium	Aluminium	Aluminium
Inlay Substrate	50um PETm 9UM Al	50um PETm 9UM Al	50um PETm 9UM Al
Facesheet Properties	N/a	N/a	40# Thermal Transfer Paper
Adhesive Properties	N/a	N/a	Acrylic Permanent
Operating Temperatures	-40 to 85°C -40 to 185°F	-40 to 85°C -40 to 185°F	-40 to 85°C -40 to 185°F
Adhesive Application	N/a	N/a	-4°C 25°F
Adhesive Service Temperature (range)	N/a	N/a	-59 to 93°C -75 to 200°F

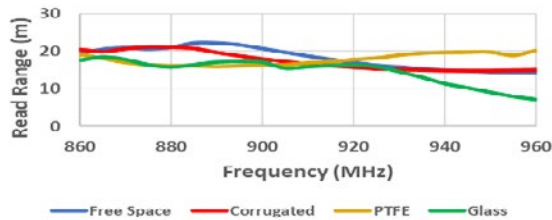


# Technical Overview

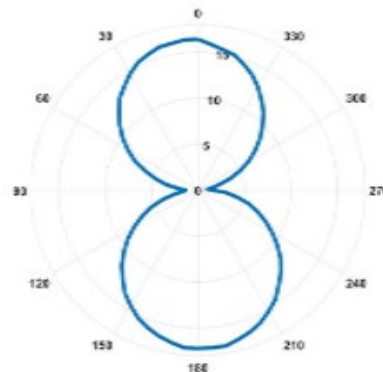
	Wet White Film	Wet Clear
Product Code	TX9508DU9-WF	TX9508DU9-WC
Antenna/Finished Size	98,38 x 12,38 3.873 x 0.4847"	98,38 x 12,38 3.873 x 0.4847"
Web Width	104,775 mm 4.125"	104,775 mm 4.125"
Pitch	15,875 mm 0.625"	15,875 mm 0.625"
Inlays per Roll	18.000	18.000
Antenna Material	Aluminium	Aluminium
Inlay Substrate	50um PETm 9UM Al	50um PETm 9UM Al
Facesheet Properties	3.0 Mil Thermal Transfer Matt White Polypropylene	50um PET
Adhesive Properties	Acrylic Permanent	Acrylic Permanent
Operating Temperatures	-40 to 85°C -40 to 185°F	-40 to 85°C -40 to 185°F
Adhesive Application	-4°C 25°F	-4°C 25°F
Adhesive Service	-59 to 93°C	-59 to 93°C
Temperature (range)	-75 to 200°F	-75 to 200°F



## Read Range



## Orientation Sensitivity



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Warranty: Please refer to Hana's UHF Labels standard terms and conditions. RFID inlays are sensitive to ESD. Observe standard industry practices relating to electronics / RFID to keep environmental impact and static charge to a minimum.

Applications: This product should be tested by the customer / user thoroughly under end use conditions to ensure the product meets the requirements. Hana Technologies, Inc. does not represent that this product is fit for any particular purpose or use. The information contained herein is believed to be reliable but Hana Technologies, Inc. makes no representation concerning the accuracy or correctness of the data.

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