



Datasheet TX2121 U9



High Performance Global RAIN RFID Inlay for Enhanced Item Performance

Hana's comprehensive 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
Product Authentication
Inventory Management

Industry Segments

Retail
Healthcare
Hospitality

Overview

Antenna Size	21 mm (0.828")
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, Wet White Paperface

Quality & Certification

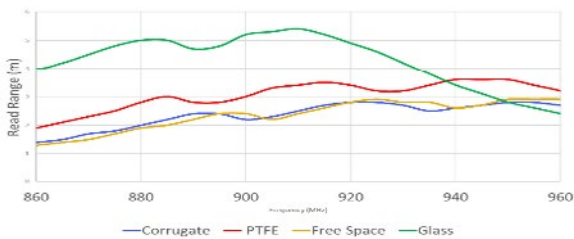
ARC Certified	N/a
Inspection	100% Tested
RoHS	EU Directive 211/65/EU and 2015/863 compliant

Technical Overview

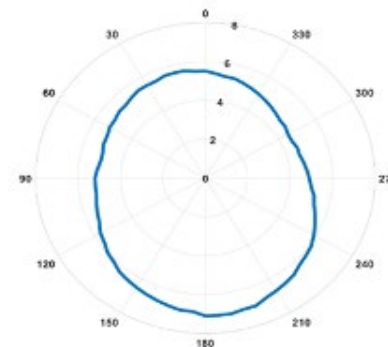
	Dry Inlay	Wet White Paperface
Product Code	TX2121AU9	TX2121AU9-WW
Antenna/tag Size	21 mm 0.828"	25,3 mm 1"
Web With	35 mm 1.378"	31,75 mm 1.25"
Pitch	28,575 mm 1.125"	28,5 mm 1.125"
Inlays per Roll	15.000	10.000
Antenna Material	Aluminium	Aluminium
Inlay Substrate	50um PETm 9UM Al	50um PETm 9UM Al
Facesheet Properties	N/a	40# Thermal Transfer Paper
Adhesive Properties	N/a	Acrylic Permanent
Operating Temperatures	-40 to 85°C -40 to 185°F	-40 to 85°C -40 to 185°F
Adhesive Application	N/a	-4°C 25°F
Adhesive Service Temperature (range)	N/a	-59 to 93°C -75 to 200°F



Read Range



Orientation Sensitivity



©2025 Hana Technologies, Inc. (Hana) All rights reserved. Third party trademarks and/or trade names used herein are the property of their respective owner(s). Some of the trademarks appear for identification purposes only.

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.

Hana RFID

29000 Aurora Rd
Solon, OH, 44139
United States

+1 330 405 4600
sales@hana-rfid.com
www.hana-rfid.com

