

J53-A1

INLAY FOR DENSE READABILITY



J53-A1 UHF RFID tag by JRI-RFID provides more robust performance, with the size of 50*30mm, used for tracking every single sterilization package. With JRI hand-held reader, it realizes more efficient and accurate inventory control. J53-A1 tag is optimized for densely tagged applications.



FEATURES:

- Global GS1 Class 1 Gen 2 (V.2.0.1) and ISO/IEC 18000-6C compliance
- Worldwide operation in all RFID UHF bands (860MHz-960MHz)
- High performance for the densely tagged applications
- 128-bit of EPC memory
- Supports pre-serialization for 96-bit EPC
- 96-bit Tag Identifier (TID) factory locked
- 0-bit User Memory
- 32-bit kill and 32-bit access password
- Minimum 100k write cycle endurance
- Seamless operation with currently deployed RFID hardware
- 50*30mm dimension, compatible with all standard far-field RFID reader antennas

OVERVIEW:

J53-A1 inlay is developed for mid-size densely tagged applications, it is based on NXP Ucode 8 IC and 50*30 omni-directional antenna, and offers more robust performance for Apparel, Shoes, Retail & General applications.

J53-A1 tags are world tag compliant, enabling consistent operation across the diverse frequencies of the Japan, Americas, Europe, China, Middle East and Africa.

DRY INLAY

Antenna Width	30mm
Antenna Length	50mm
Web Width	53.5mm
Web Pitch	34.925mm
Core Width	53.5mm
Core Material	Fiberboard
Inlay Roll	6000pcs
Roll Labeling Info	Roll ID、Quantity

LABEL

Label Width	33mm
Label Length	53mm
Web Width	56mm
Web Pitch	34.925mm
Core Width	56mm
Core material	Fiberboard
Inlay Roll	6000pcs
Roll Labeling Info	Roll ID、Quantity

ENVIRONMENTAL

Operating Humidity	20% ~ 90% RH
Operating Temperature	-40℃ ~ +70℃
Recommended Storage	+25℃@40% RH
Shelf Life for Dry	5 years at +25℃@40% RH
Shelf Life for Wet	2 years at +25℃@40% RH
Bend Diameter	>50mm
Pressure	<5N/mm ²
ESD (human body model)	±2kV

RFID

Protocols Supported	GS1 Class1 Gen2 ISO/IEC 18000-6C
Operating Frequency	860MHz ~ 960MHz
EPC	128 bits
TID	96 bits
RESERVED	64 bits
USER	0 bit
Write Cycle	>100k

TAG PERFORMANCE COMPARING WITH NORMAL RETAIL TAG

TEST CONDITION	RETAIL TAG A	JRI J53-A1
Single Tag on Cardstock	-17.5dBm	-17.5dBm
Single Tag on Denim article	-16dBm	-18.5dBm
Single Tag on Polybag	-16dBm	-18.5dBm
Single Tag between Two Denim articles	-17dBm	-17dBm
Single Tag in-near with Metal Plate	1dBm	-6dBm
Multi Tags Spaced Close	4dBm	-12dBm