

J91-A1

UHF RFID TAG FOR DENSE READABILITY



J91-A1 UHF RFID tag is used for tracking every single sterilization package, withstanding pulse vacuum steam sterilization cycles. With JRI hand-held reader, it contributes to highly efficient and accurate inventory control. With JRI RFID printer, it realizes visual reading of package information.



FEATURES:

- Global GS1 Class1 Gen2 (V.2.0.1) and ISO/IEC 18000-6C compliance
- Worldwide operation in all RFID UHF bands (860MHz-960MHz)
- High performance for the dense 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
- 95*10mm dimension, compatible with all standard far-field RFID reader antennas

OVERVIEW:

As sterilization packages with UHF RFID tags can be identified in groups or in a trolley, the efficiency of packages collection and delivery is greatly improved in CSSD. Besides, the phenomenon of missing and wrong delivery is also avoided. With JRI RFID printer, it realizes visual reading of package information, e.g. sterilization date, expiry date, sterilizer type, batch number, department name.

J91-A1 is developed for mid-size densely tagged applications, based on NXP Ucode 8 IC and 95*10mm omni-directional antenna, and offers more robust performance for medical applications. This UHF RFID tag conforms to the frequency band of various regions such as Japan, America, Europe, China, Middle East, Africa.

LABEL	
Label Width	30mm
Label Length	100mm
Reel Web Width	100±1.0mm
Reel Inner Core Diameter	3"(76.2mm)
Reel Core Thickness	5±2mm
Reel Core Material	Fiberboard
Inlay Roll	5000pcs
Roll Labeling Info	Roll ID、Quantity

Environment Requirements	
Operating Humidity	20% ~ 80% RH
Operating Temperature	- 5 ~ 60°C
Storage Humidity	20% ~ 60% RH
Storage Temperature	20 ~ 30°C
Shelf Life	From the date of manufacture,1 year in anti-static bag at 20 ~ 30°C / 20% ~ 60% RH),and avoid direct sunlight exposure

Electrical Characteristics			
Item	Description		Remarks
Face Material	66g 63um polyolefin film		
Bottom Material	56um Release paper		UPMUERC1828U1
Manufacture / IC	Ucode 9		
Base Material	PET		
Antenna	Etched Aluminum (10µm)+ PET (50µm)		
Protocol	ISO/IEC 18000-6C		
Memory	EEPROM	96 Bits	Read & Write
	User Memory		
	TID	96 Bits	Read Only
	Password	32Kill password	Read & Write
Frequency	860-960MHz		
Operating Mode	Passive		
IC Life	100,000 Programming cycles,50 years data retention		
ESD Voltage Immunity	Max. 2000V		Human Body Mode(HBM)

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