



Sentry 06D



A tiny mount-on-metal UHF Tag for many applications

Overview

The Sentry 06D has a tiny footprint of less than five-hundredths of a square inch. The tag is 6mm (0.24") in diameter and only 3.6mm (0.14") tall, but it delivers a 3-4 foot read distance. Its tiny size and attractive price gives customers a new option for tracking any type of small, metal object.

Up until now the only option for tagging these objects was expensive ceramic tags. No more. The 06D is built with our ViziCore construction, which is intrinsically rugged and can tolerate repeated exposure to high temperatures, vibration, impact and a wide range of chemistries. The 06D is a good candidate for instruments that see repeated autoclave or other sterilization cycles. The 06D needs only a small cavity to be embedded in metal, if a surface mounted tag is not an acceptable solution.

Features & Benefits

- Read distances of 3-4 feet on metal surfaces
- Tiny footprint of less than 0.05 in² can be used to tag small objects
- Low cost
- Rugged: tolerant of repeated exposure to high temperatures, vibration and impact
- Excellent performance when embedded in metal

Part Number

AST1-143-0001

Industries

- ▶ Service and maintenance
- ▶ Government and military
- ▶ Manufacturing

Applications

- ▶ Metal tools
- ▶ Work in process and finished goods
- ▶ Electrical and mechanical parts and assemblies

Why Vizinex?

- ▶ Trusted technology
- ▶ Innovative design
- ▶ High performance
- ▶ Unmatched customer service

► **The Sentry Platform**

Vizinex RFID's Sentry line of high-performance, cost-effective, and application-specific RFID tags are based on a printed circuit board platform. This well-established manufacturing process offers unsurpassed reliability and consistency in read range performance. At the core of the tag is a fiber-reinforced composite material that gives the Sentry tag its innate ruggedness. The innovative, patented tag design enables fast prototyping and affordable customization - essential to the expanding requirements of the RFID industry.

► **Sentry 06D Specifications**

Physical	
Dimensions	6mm diameter X 3.6mm tall (0.24" x 0.14")
Use Case	On metal
Attachment	Site applied adhesive
Weight	0.5 grams
Electrical/RF	
Typical Read Range	3-4 feet at 36 dBm ERP
Frequency	902-928 MHz
IC Platform	Impinj Monza R6P
IC Memory	Up to 128-bits of EPC memory, 96 bits of Serialized TID with 48-bit serial number, up to 64 bits of user memory
Environmental	
Classification	IP68
Operating Temperature	-50°C to +85°C (-58°F to +185°F)
Temperature Tolerance	-50°C to +185°C (-58°F to +365°F)
Steel Ball Drop Test	18" drop with 1" diameter steel ball



What can Vizinex RFID do for your company?

Email sales@vizinexrfid.com or call 215-529-9440 to talk about your needs and requirements.



About Vizinex RFID

Vizinex RFID, headquartered in Bethlehem, PA, designs and manufactures RFID tags for diverse asset tracking applications from rugged environments in the oil industry, to medical devices requiring repeated sterilization, to long-range vehicle tracking. With prototyping and manufacturing located in the U.S., our time from concept to delivery is unmatched. Vizinex RFID maintains a tradition of innovation, superior functionality and outstanding customer support, allowing us to deliver RFID ... the way you imagined.