

EPC global Gen2v2 Concrete RFID On-metal Tag



1. Product Overview

Constructed from robust and long-lasting engineering plastics, this EPC global Gen2v2 concrete RFID on-metal tag offers a read range of up to 10 meters on metal surfaces, 4.5 meters when embedded in concrete at a depth of 5 cm, and 3.0 meters at a depth of 10 cm. Its rugged casing provides IP68 ingress protection, enabling the Bric to withstand high impacts and extreme conditions commonly found in construction sites. This durable concrete RFID on-metal tag is specifically designed for applications in package and material tracking, car windshield mounting, and harsh environments in heavy industry.

2. Product Parameters

2.1 Physical Characteristics

SKU	AZT-R6P-OMPLS-5147
Material	Engineering Plastic
Tag Dimension	51.0x47.0mm; Thickness: 10.0mm, (Hole: D5mm)
Net Weight	23.5g
Tag Color	Black
IP Rating	IP68
Mounting Methods	Screw, Rivet, Adhesive, Embedded in concrete

2.2 Technical Parameters

Operating Frequency	840-940 MHz
Communication Protocol	ISO/IEC 18000-6C, EPC Global Gen2v2
Applicable Surface	Metal Surfaces

Key Features

Operating Frequency	UHF 840-940 MHz
Chip Type	Impinj Monza R6-P
International Standard	ISO/IEC 18000-6C, EPC Global Gen2v2
User Memory	64 bits
EPC Memory	128 bits
IP Rating	IP68
Max. Read Range	10.0m on metal, 4.5 m embedded in concrete



Read Range (Fix Reader)	10.0m, US (902-928MHZ), On Metal; 7.5m, EU (865-868MHZ), On Metal;
Read Range (Handheld Reader)	5.0m, US (902-928MHZ), On Metal; 4.5m, EU (865-868MHZ), On Metal.
Embedded in Concrete 5cm Deep (Fix Reader)	4.0m, US (902-928MHZ) 4.5m, EU (865-868MHZ)
Embedded in Concrete 5cm Deep (Handheld Reader)	1.5m, US (902-928MHZ) 2.1m, EU (865-868MHZ)
Embedded in Concrete 10cm Deep (Fix Reader)	2.0m, US (902-928MHZ) 3.0m, EU (865-868MHZ)
Embedded in Concrete 10cm Deep (Handheld Reader)	0.8m, US (902-928MHZ) 1.2m, EU (865-868MHZ)

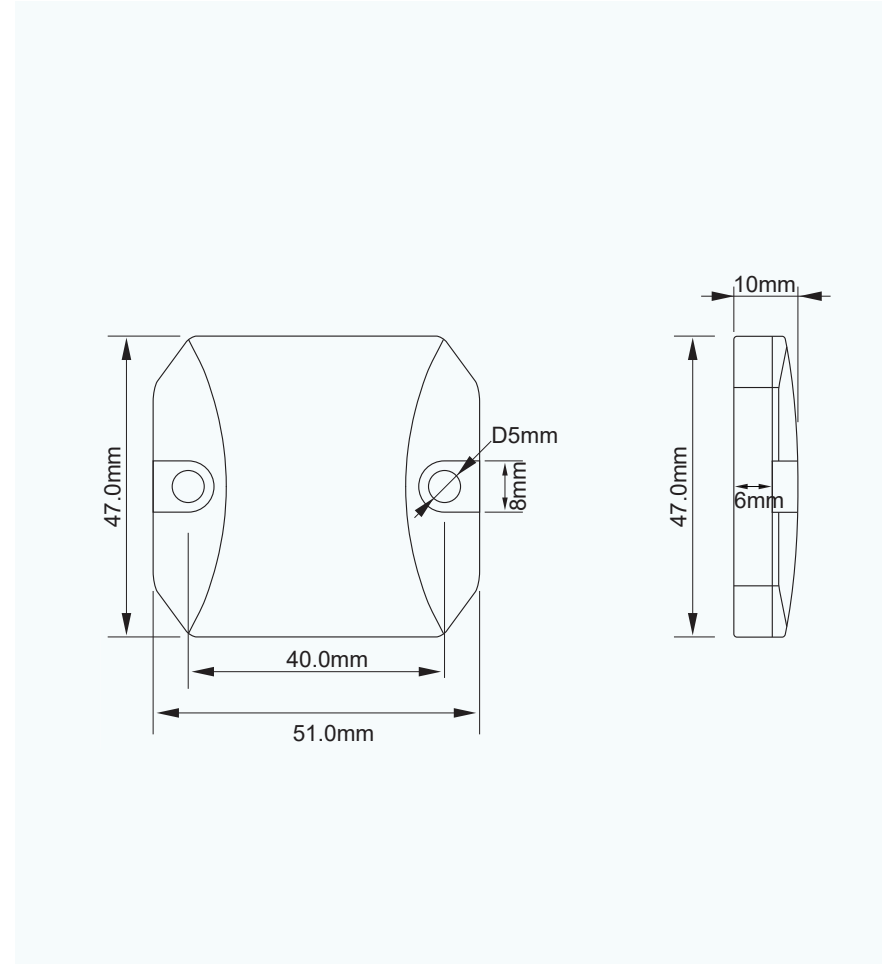
2.3 Chip Characteristics

Chip Manufacturer	Impinj
Chip Type	Impinj Monza R6-P
Write Cycles (Typical Cycles)	100,000
Data Retention (Years)	50
User Memory	64bits
EPC Memory	128bits
TID Memory	96bits
Read Sensitivity	Up to -22 dBm
Write Sensitivity	Up to -17 dBm

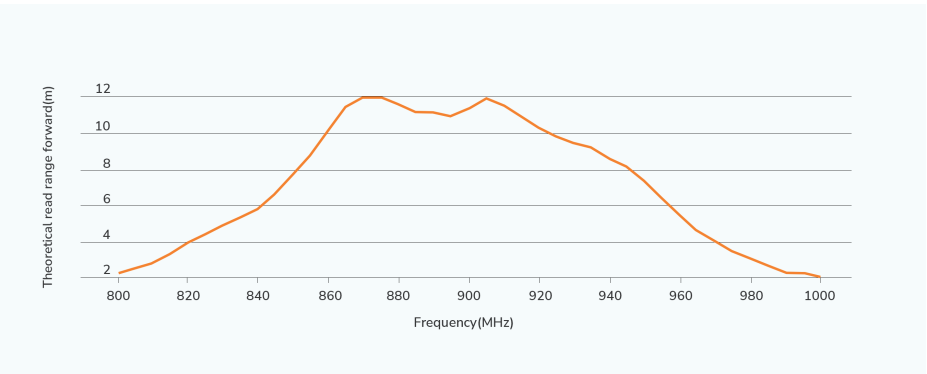
2.4 Additional Information

Operating Environment	-40~+85°C
Storage Environment	-40~+85°C
Withstands Environment	Corrosive heavy industry environments

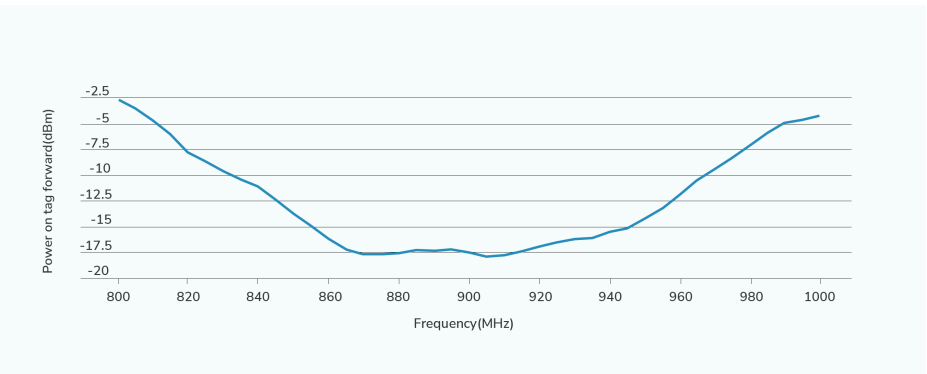
3.0 Dimensions



4.1 Reading range under different frequency



4.2 Tag power under different frequency



<https://www.rfidtag.com>

E-mail : sales@rfidtag.com Phone Number: +86-131-3958-0585
Singapore Office : 10 Science Park Road #03-17A, The Alpha, Singapore Science Park, Singapore 117684
Shenzhen Office : 33-408, Qianhai SZ-HK Fund Town, Nanshan, Shenzhen, China 518052
Shenzhen Factory : Q5, XingDao Industrial Park, LongGang, Bantian, Shenzhen, China 518129