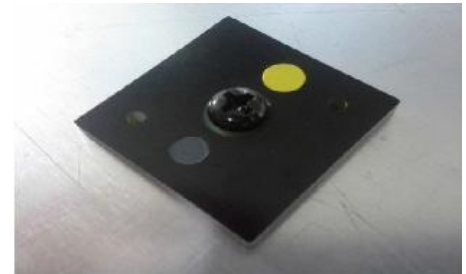


This passive UHF RFID tag offers a medium read distance in both on and off metal applications.

This passive UHF RFID tag is RoHS and EPC Class 1 Gen 2 protocol compliant and provides a memory capacity of 96 bits. When placed on metal applications, it provides a read distance of 2.0 m from a fixed reader and 1.0m from a handheld reader; while on non-metal applications, the read distance is 0.5 m from a fixed reader and 0.3 m from a handheld reader. It performs well in harsh environments and meets rigorous endurance requirements in terms of heat, pressure and chemical resistance.



Key Features

- ✓ Small size and light weight
- ✓ Waterproof and high temperature resistant
- ✓ Performs well even in harsh environments
- ✓ RoHS compliance

Technical Specifications

Chip	Alien Higgs3		
Chip Memory	EPC 96 bits (Extensible to 512 bits)/User 512 bits/TID 64 bits/CRC 32 bits		
Chip attachment	Aluminum wire bonding		
Antenna	Gold plated etched copper		
Protocol	EPC Class1 Gen2		
Read Distance		Fixed reader	Handheld reader
	On metal	2 m	1 m
	On non-metal	0.5 m	0.3 m
Size W*H*D mm	26*26 *3.1		
Material	Glass fiber - PCB FR4		
Operating Temperature	-40 °C to 85 °C		
Storage Temperature	-55 °C to 180 °C		
IP Classification	IP68 (tested for 24 h in 1 meter depth)		
Humidity	85 °C/85%RH tested for 168)		
Boiling water	Tested in boiling water for 24 h		
Pressure	Tested with 50 trials x 1 kg iron ball free falling on tag		
Vibration	IEC60068-2-6/64		
Chemicals	Salt water (salinity 10%, 24 h)/NaOH (10%, pH13, 24 hrs)/Sulfuric acid (10%, pH2, 24 h)/Motor oil (24 h)/Methanol (24 h)/Ethanol (24 h)		
Warranty	18 months		
RoHS	100% compliant		

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