

***This UHF RFID tag is well suited on cable tied IT assets, plastic containers and pallets.***

This UHF Gen 2 RFID spiral tag is a square device with oval hole for tie-on applications and is developed specifically for only non-metal applications. It performs best when it hangs in the air at a 45 degree angle between reader antenna and tag. It provides a long read distance of up to 4.5 meters in air and 2 meters on non-metal assets. This tag is well suited on cable tied IT assets, plastic containers and pallets. Its IP68 housing allows it to perform well even in harsh environments.



**Key Features**

- ✓ Compact size and light weight
- ✓ Designed only for non-metal applications
- ✓ Reads up to 4.5 meters when hanging at 45 degrees
- ✓ 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 non-metal	2 m	1 m
	In air (45°angle)	4.5 m	2.5 m
Size W*H*D mm	45*44*2.1		
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 m depth)		
Humidity	85 °C/85%RH (tested for 168 h)		
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		

**GAO Group**

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