

This UHF Gen 2 passive RFID tag provides a reading distance of 0.7 m on metal and 0.5 m on non-metal.



Key Features

- ✓ Passive RFID tag
- ✓ UHF EPC Class 1 Gen 2
- ✓ Alien Higgs 3
- ✓ Read up to 0.7 meter on metal
- ✓ Read up to 0.5 meter on non-metal

Technical Specifications

Silicon Chip	Alien Higgs 3	
Chip Memory	EPC 96 bits (extensible to 512 bits) User 512 bits TID 64 bits CRC 32 bits	
Material	Glass fiber – PCB FR4	
Antenna	Gold plated etched copper	
Chip Attachment	Aluminum wire bonding	
RoHS	100% compliant	
Dimensions	(W) 26 mm × (H) 10 mm × (T) 2.1 mm	
Applied Fields	Military – Gun & rifle, IT Server, laptop & mobile, Tools Molding tool, Medical Autoclave, Electronics Printed circuit board	
<u>Read Range</u>	Fixed Reader	Handheld Reader
	0.7 m (On metal)	0.4 m (On metal)
	0.5 m (On non-metal)	0.3 m (On non-metal)
Temperature	Operating -40°C to 85 °C Storage -55 °C to 180 °C Peak 200 °C 6 h	
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 kilogram iron ball free falling on tag	
Vibration	IEC60068-2-6/64	
Chemicals	Salt water (salinity 10%, 24 h) NaOH (10%, pH13, 24 h) Sulfuric acid (10%, pH2, 24 h) Motor oil (24 h) Methanol (24 h) Ethanol (24 h)	



<p>GAO Group</p> <p>GAORFID.com GAOTek.com GAOResearch.com</p>	<p>Toll Free (USA & Canada) 1-877-585-9555</p> <p>All Other Areas 416-292-0038</p> <p>Dial Ext.601 for Sales Ext.602 for Other Inquiries</p> <p>sales@GAORFID.com</p>
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