



Part-Number	Picture	UHF-IC type	Size (L x W x H) (mm)	Hole (Ø x No.)	Read Range (On Metal): Fixed Reader: 36 dBm/4W		Read Range (On Metal): Mobile Reader: 33 dBm/2W		Weight (g)	Option
					US (902- 928MHz)	EU (865- 868MHz)	US (902- 928MHz)	EU (865- 868MHz)		
Ex-OPPD5		Alien Higgs-3	Ø 5 x 4	-	100cm	80cm	60cm	40cm	0.5g	
Ex-OPP0603		Alien Higgs-3	6 x 3 x 4	-	90cm	80cm	50cm	45cm	0.5g	
Ex-OPPD6		Alien Higgs-3	Ø 6 x 4	2 mm x 1	85cm	75cm	45cm	45cm	0.5g	
Ex-OPP0803		Alien Higgs-3	8 x 3 x 3	2 mm x 1	95cm	90cm	50cm	45cm	0.5g	
Ex-OPP1004		Alien Higgs-3	10 x 4 x 2	2 mm x 1	135cm	135cm	90cm	75cm	0.5g	Adhesive
Ex-OPPD10		Alien Higgs-3	Ø 10 x 3	2 mm x 1	150cm	130cm	100cm	95cm	0.5g	Adhesive
Ex-OPP1307		Alien Higgs-3	13 x 7 x 3	2 mm x 2	250cm	240cm	150cm	140cm	0.7g	Adhesive
Ex-OPPD13		Alien Higgs-3	Ø 13 x 2	2 mm x 2	150cm	130cm	110cm	90cm	0.7g	Adhesive
Ex-OPPD16		Alien Higgs-3	Ø 16 x 3	2 mm x 2	260cm	240cm	160cm	150cm	1.3g	Adhesive
Ex-OPP1504		Alien Higgs-3	15 x 4 x 2	2 mm x 2	210cm	220cm	130cm	150cm	0.7g	Adhesive
Ex-OPP1808		Alien Higgs-3	18 x 8 x 2	2 mm x 1	145cm	145cm	100cm	90cm	1.2g	Adhesive

ATEX Zone 1 / 21
SMALL
LONG RANGE
ON METAL
UHF RFID TAGs
5mm ... 18mm
865...928 MHz
ISO18000-6C



RoHS ✓

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Rev. 01



Product:	ATEX Zone 1 / 21 certified SMALL RUGGED LONG RANGE Ultra High Frequency PCB (FR4) ON METAL RFID	
RFID Chip:	UHF: EPC CLASS 1 GEN 2 ISO18000-6C: ALIEN Higgs-3 User Memory 512bit EPC	
Read Range ON METAL:	Mobile Handheld Reader: 230 cm upto 6.5 m Fixed Mounted Reader: 280 cm upto 10.8 m	(Depends on RFID IC type and reader power)
Frequencies:	UHF - Europe: 865...868 MHz UHF - USA: 902...928 MHz	(At room temperature 20°C)
Dimensions / Weight:	5 mm to 18 mm (see details in the table on page 1)	0.5 to 1.3 g (depends on size)
Material / Colour:	PCB / FR4 Glass Epoxy Layer	Black (other colours on request)
ATEX Marking: European Directive:	C E 1282 II 2G Ex ia IIA T2 Gb C E 1282 III 2D Ex ia IIIB T2 Db	EU-Directive: 2014/34/EU Annex III Module B
Mounting: Protection Class:	ON METAL with 3M adhesive back, mounting holes IP68	
Minimum Order Quantity:	1000 pieces	
Operating Temperature:	-40°C...+100°C	
Storage Temperatures:	-40°C...+150°C	
Certification / Other:		RoHS
Part Description:	see table on page 1	



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Options:

- Standard colour is BLACK: Other colour version is available on request (Blue, Green, Orange, Red, Yellow); (MOQ 3000 pieces)
- Different Frequency Versions (UHF) country/region versions on request
- Customised laser printing
- Customised logo printing
- Serial Number printing
- UID Number printing
- Adhesive back sticker foil

These Rugged Long Range RFID TAGs are used by system integrators or endusers to identify all kind of equipment in industrial harsh environment.

Applications:

- Asset Management
- Industrial ID
- Instrument Tracking
- Maintenance and Service
- Medical Device Management
- Small Asset Tracking
- Source Tagging
- Surgical Instrument Management
- Your application



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