



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-OPP20		Alien Higgs-3	Ø 20 x 2	2 mm x 2	320cm	280cm	240cm	230cm	1 g	Adhesive
Ex-OPP2208		Alien Higgs-3	22 x 8 x 3	2 mm x 2	470cm	450cm	300cm	280cm	1.3 g	Adhesive
Ex-OPP2510		Alien Higgs-3	25 x 10 x 2	2 mm x 2	325cm	300cm	250cm	240cm	1.3 g	Adhesive
Ex-OPP3005		Alien Higgs-3	30 x 5 x 2	2 mm x 2	310cm	250cm	210cm	200cm	0.8 g	Adhesive
Ex-OPP3310		Alien Higgs-3	33 x 10 x 3.5	2 mm x 2	450cm	350cm	280cm	250cm	3 g	Adhesive
Ex-OPP3613		Alien Higgs-3	36 x 13 x 3.5	2 mm x 2	470cm	450cm	270cm	250cm	3.5 g	Adhesive
Ex-OPP4010		Alien Higgs-3	40 x 10 x 2	2 mm x 2	450cm	420cm	300cm	280cm	2 g	Adhesive
Ex-OPP5010		Alien Higgs-3	50 x 10 x 1	2 mm x 2	280cm	250cm	190cm	170cm	1.5 g	Adhesive
Ex-OPP5213		Alien Higgs-3	52 x 13 x 3.5	3 mm x 2	820cm	800cm	510cm	490cm	5.5 g	Adhesive
Ex-OPP8008		Alien Higgs-3	80 x 8 x 3.5	3 mm x 2	650cm	590cm	340cm	310cm	5 g	Adhesive
Ex-OPP9020		Alien Higgs-3	90 x 20 x 3	3 mm x 2	1080cm	1050cm	650cm	630cm	12 g	Adhesive

**ATEX Zone 1 / 21  
RUGGED  
LONG RANGE  
ON METAL  
UHF RFID TAGs  
20mm ... 90mm  
865...928 MHz  
ISO18000-6C**



**RoHS ✓**

arfidex GmbH Adlerstraße 2 D-63322 Rödermark Germany Phone: +49 (0) 6074 861930 www.arfidex.de info@arfidex.de

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<b>Product:</b>	ATEX Zone 1 / 21 certified RUGGED LONG RANGE Ultra High Frequency PCB (FR4) ON METAL RFID TAG	
<b>RFID Chip:</b>	UHF: EPC CLASS 1 GEN 2 ISO18000-6C: ALIEN Higgs-3 User Memory 512bit EPC	
<b>Read Range ON METAL:</b>	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)
<b>Frequencies:</b>	UHF - Europe: 865...868 MHz UHF - USA: 902...928 MHz	(At room temperature 20°C)
<b>Dimensions / Weight:</b>	20 mm to 90 mm (see details in the table on page 1)	0.8 to 12 g (depends on size)
<b>Material / Colour:</b>	PCB / FR4 Glass Epoxy Layer	Black (other colours on request)
<b>ATEX Marking: European Directive:</b>	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
<b>Mounting: Protection Class:</b>	ON METAL with 3M adhesive back, mounting holes IP68	
<b>Minimum Order Quantity:</b>	1000 pieces	
<b>Operating Temperature:</b>	-40°C...+100°C	
<b>Storage Temperatures:</b>	-40°C...+150°C	
<b>Certification / Other:</b>		RoHS
<b>Part Description:</b>	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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