

UHF 868 MHz **NEOTAG[®]** Plug for metal and non metal objects

Applications

- Maintenance and service
- Tool management
- Identification of connectors and sockets (Smart Connect)
- Production tracking
- Counterfeit protection
- Object identification in Industry 4.0



NeoTAG [®] Type	Part. No.	IC-Chip	Application	Mounting [mm]
NeoTAG[®] Plug UG4336 max. Size: Ø4.3 mm x 3.6 mm 	 Weight 0.06g/Piece	00 7053 00	Impinj Monza 4QT	UG4336 non metal Hole Ø4.0±0.05 min. t = 3.7 Press fit case
NeoTAG[®] Plug UMG4336 max. Size: Ø4.3 mm x 3.6 mm 	 Weight 0.06g/Piece	00 7053 01	Impinj Monza 4QT	UMG4336 In metal Hole Ø4.0±0.05 min. t = 3.7 Press fit case
NeoTAG[®] Plug UMG10345 max. Size: Ø10.3 mm x 4.5 mm 	 Weight 0.80g/Piece	00 7053 21	Alien Higgs 3	UMG10345 In metal Hole Ø10.0±0.05 min. t = 4.6 Press fit case

Passive Transponder, RoHS compliant. Full automated production.
100% outgoing inspection of frequency and functionality.

Alle Angaben ohne Gewähr. Irrtümer und Änderungen vorbehalten. No responsibility is taken for the correctness. Errors and modifications are subject to change.

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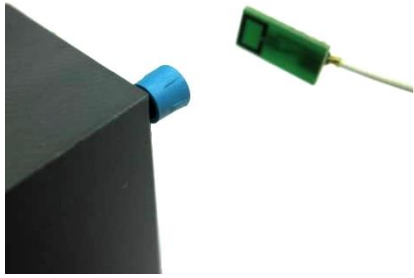
IC-Specifications

IC Typ	Impinj Monza 4QT *1	Alien Higgs 3 *2
Supported Standards UHF 868 MHz	<i>ISO/IEC 18000-63</i> , EPC global™ Class-1 Generation-2 (V 2)	<i>ISO/IEC 18000-6C</i> , EPC global™ Class-1 Generation-2 (V 1.2.0.)
Security and Privacy aspects	<i>96 bit Tag IDentifier (TID)</i> <i>128 bit Electronic Product Code (EPC memory)</i> ; Password (32 bit) protection	<i>64 bit Tag IDentifier (TID)</i> ; <i>96 bit Electronic Product Code (EPC memory)</i> ; Password (32 bit) protection
Write- / read-function	NVRAM Memory Write- / read-function; <i>128 bit EPC memory</i>	NVRAM Memory Write- / read-function; <i>96 bit EPC Memory (extendable on 480 bit)</i>
User Data Memory	512 bit	512 bit (reduces itself equivalent, if the EPC memory will be enlarged)
Write Endurance	100 000 cycles at ≤ +25°C	100 000 cycles at ≤ +25°C
Operating Temperature	-40° C to +85° C (reading / writing of NeoTAG®)	-40° C to +85° C (reading / writing of NeoTAG®)
Data Retention	50 years at ≤ +22° C	50 years
Fast Data Transfer Rate	Up to <i>848</i> kbit / per second	Up to <i>848</i> kbit / per second
Simultaneous Reading	Up to <i>800</i> NeoTAG® per second (depending on reading device and antenna)	Up to <i>800</i> NeoTAG® per second (depending on reading device and antenna)

*1 According to manufacturer data specifications Impinj. For more details please check www.Impinj.com

*2 According to manufacturer data specifications Alien Higgs3. For more details please check www.alientechnology.com

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	<i><u>in non metal objects</u></i>	<i><u>in metal objects</u></i>		
Typical Reading Distance	6 mm in air and non metal objects at an output power of 1 watt and 10 x 5 mm PCB reading antenna. Installation of the NeoTAG® Plug with the lettering to the reading antenna.	4 mm in metal objects at an output power of 1 watt and 10 x 5 mm PCB reading antenna. Installation of the NeoTAG® Plug with the lettering to the reading antenna.	UG/UMG4336	
		350 mm in metal objects at an output power of 2 watt (270 x 270 mm) from the reading antenna. Installation of the NeoTAG® Plug with the lettering to the reading antenna.	UMG10345	
NeoTAG® Measuring Conditions (Example)	Positioned centrally to the reader antenna.			
			UG/UMG4336	
	<p><u>Further information regarding the installation of reading antenna and reader are available upon request.</u> The reading range depends on installation situation and environmental conditions.</p>		Impinj Monza 4QT	Alien Higgs 3
Storage Temperature Range	-40° C to +85° C (without Blisterpack)		✓	
	-40° C to +150° C (without Blisterpack)			✓

With press fit case for quick and easy assembly.

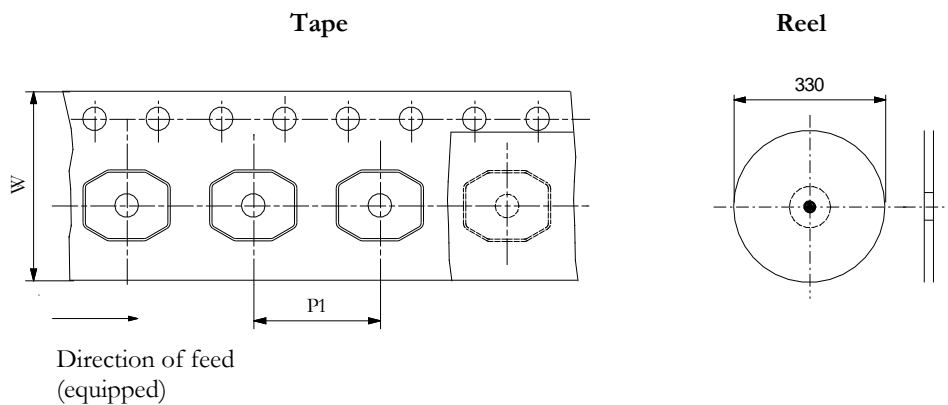
Note on recommendations and representations:

The final qualification has to be performed by the customer. Indicated values are approximate values and can be affected by the installation situation and environmental conditions.

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NeoTAG[®] Packaging (simplified view)



NeoTAG [®] Type	Piece / Reel	W [mm]	P ₁ [mm]
NeoTAG [®] Plug UG/UMG4336	1700	12.0	8.0

NeoTAG [®] Type	Piece / Polybag	Width [mm]	Length [mm]
NeoTAG [®] Plug UMG10345	500	120	175

General Information

UID numbers attached as text file up on request.

Blisterpack designed according to DIN EN 60286-3:2014-02.

Storage- and transport conditions (in Blisterpack): +10°...+40° C at ≤70% rel. humidity, dark storage and transport conditions.

Alternative packaging on request.

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