

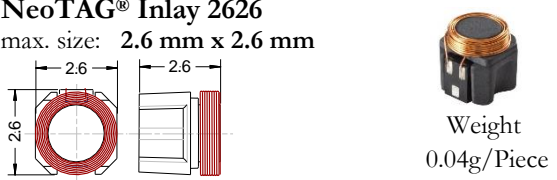
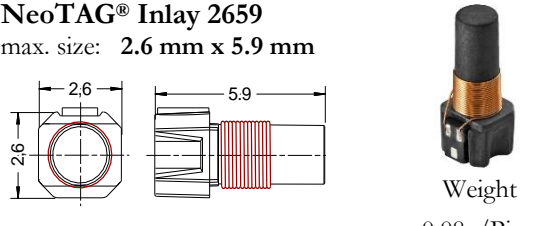

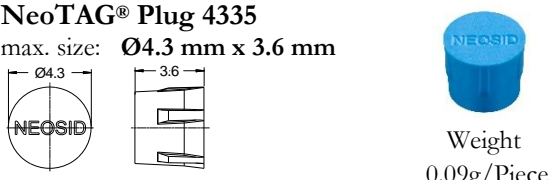
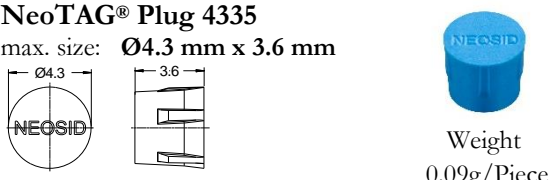
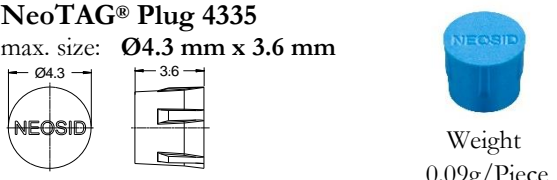
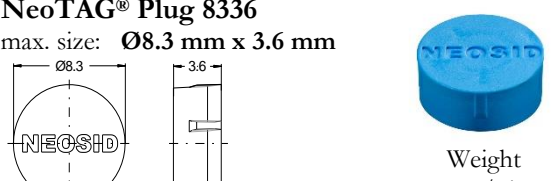
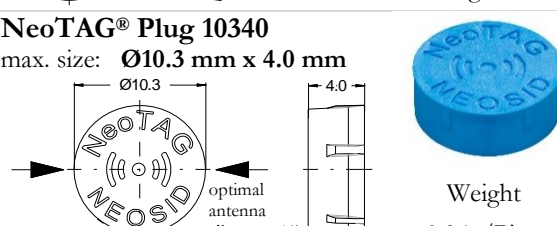
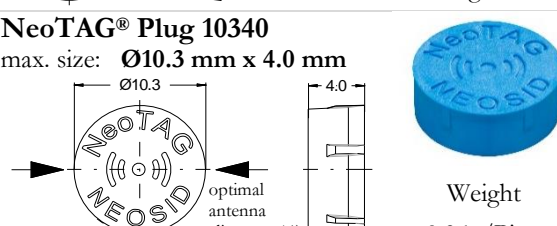
# HF 13.56 MHz **NEOTAG®** Inlay/Plug/Flag/SMD For metal and non metal objects

## Applications

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



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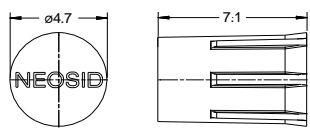

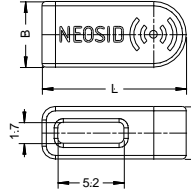

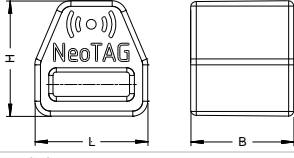

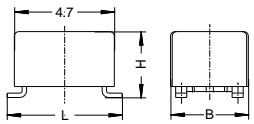

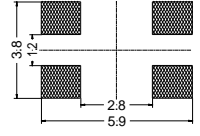
NeoTAG® Type	Part No.	IC-Chip	Application	Mounting [mm]
<b>NeoTAG® Inlay 2626</b> max. size: 2.6 mm x 2.6 mm 	00 7040 30	SLIX	<b>F2626</b> non metal	Hole min. Ø2.7; t=2.7
	00 7043 30 00 7042 30	SLIX2 EM 4237		
<b>NeoTAG® Inlay 2659</b> max. size: 2.6 mm x 5.9 mm 	00 7050 32	SLIX	<b>F2659</b> non Metall	Hole min. Ø2.7; t=6.2
	00 7043 00 00 7052 30	SLIX2 EM 4237		
<b>NeoTAG® Plug 3326</b> max. size: Ø3.3 mm x 2.6 mm 	00 7060 32	SLIX	<b>G3326</b> non metal	Hole Ø3.0±0.05 min. t=2.7
	00 7060 36 00 7060 34	SLIX2 EM 4237		
<b>NeoTAG® Plug 4335</b> max. size: Ø4.3 mm x 3.6 mm 	00 7060 33	SLIX	<b>MG3326</b> Metal	Press fit case
	00 7060 37 00 7060 35	SLIX2 EM 4237		
<b>NeoTAG® Plug 4335</b> max. size: Ø4.3 mm x 3.6 mm 	00 7040 32	SLIX	<b>FG4335</b> non Metal	Hole Ø4.0±0.05 min. t=3.7
	00 7043 32 00 7042 32	SLIX2 EM 4237		
<b>NeoTAG® Plug 4335</b> max. size: Ø4.3 mm x 3.6 mm 	00 7040 33	SLIX	<b>MFG4335</b> metal	Press fit case
	00 7043 33 00 7042 33	SLIX2 EM 4237		
<b>NeoTAG® Plug 8336</b> max. size: Ø8.3 mm x 3.6 mm 	00 7040 38	SLIX	<b>FG8336</b> non metal and metal	Hole Ø8.0±0.05 min. t=3.7
	00 7043 38 00 7042 38	SLIX2 EM 4237		
<b>NeoTAG® Plug 10340</b> max. size: Ø10.3 mm x 4.0 mm 	00 7050 16	SLIX	<b>FG10340</b> non metal	Hole Ø10.0±0.05 min. t=4.1
	00 7043 16 00 7052 16	SLIX2 EM 4237		
<b>NeoTAG® Plug 10340</b> max. size: Ø10.3 mm x 4.0 mm 	00 7050 17	SLIX	<b>MFG10340</b> metal	Press fit case
	00 7043 17 00 7052 17	SLIX2 EM 4237		



**new**



# HF 13.56 MHz **NEOTAG®** Inlay/Plug/Flag/SMD

NeoTAG® Type	Part Nr.	IC-Chip	Application	Mounting [mm]
<b>NeoTAG® Plug 4670</b> max. size: <b>Ø4.7 mm x 7.1 mm</b>   Weight 0.18g/Piece	00 7050 38 00 7043 02 00 7052 32	SLIX SLIX2 EM 4237	<b>FG4670</b> non metal	Hole Ø4.3±0.05 min. t=7.1 Press fit case
<b>NeoTAG® Flag 5242</b> max. size: L x B x H <b>11.2 mm x 5.15 mm x 4.15 mm</b>   Weight 0.26g/Piece	00 7040 90 00 7043 90 00 7042 90	SLIX SLIX2 EM 4237	<b>FG5242</b> non metal <b>and metal</b>	Cable ties and more mounting elements up to 4.8 width or Ø1.3
<b>NeoTAG® Flag 7678</b> max. size: L x B x H <b>7.6 mm x 7.1 mm x 7.75 mm</b>   Weight 0.43g/Piece	00 7040 91 00 7043 91 00 7042 91	SLIX SLIX2 EM 4237	<b>FG7678</b> non metal <b>and metal</b>	Cable ties and more mounting elements up to 4.8 width or Ø1.3
<b>NeoTAG® SMD 4530</b> max. size: L x B x H <b>5.4 mm x 3.7 mm x 3.1 mm</b>   Weight 0.09g/Piece	00 7040 34 00 7043 34 00 7042 34	SLIX SLIX2 EM 4237	<b>FG4530</b> non metal	 Solder areas - recommendation

\*1) Inside this transponder the inlay is placed horizontal to the front with orientation indicated in the drawing. Depending on the orientation of the reader antenna different reading distances are possible. For further information see our product info technical information HF-RFID-transponder.  
 Passive Transponder. RoHS-compliant.  
 Fully automated production in Germany.  
 100% outgoing inspection of frequency and functionality.



Readable and writable by many mobile devices with NFC function.

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# HF 13.56 MHz **NEOTAG®** Inlay/Plug/Flag/SMD

## IC-Specifications

IC Type	NXP ICODE SLIX *2)	NXP ICODE SLIX2 *2)	EM 4237 *3)
<b>Supported Standards HF 13.56 MHz</b>	<i>ISO/IEC 15 693</i> , ISO18000-3 Mode <i>1</i> with anti-collision algorithm. NFC Forum Type 5 TAG.	<i>ISO/IEC 15 693</i> , ISO18000-3 Mode <i>1</i> with anti-collision algorithm. NFC Forum Type 5 TAG.	<i>ISO/IEC 15 693</i> , ISO18000-3 Mode <i>1</i> with anti-collision algorithm. NFC Forum Type 5 TAG.
<b>Security and privacy aspects</b>	<i>64</i> bit Unique <b>ID</b> entifier (UID). Password (32 bit) protected EAS and <i>AFI</i> functionality. <i>Write protection for each user memory block.</i>	<i>64</i> bit Unique <b>ID</b> entifier (UID). Password (32 bit) protected EAS and <i>AFI</i> functionality. <i>Write protection for each user memory block.</i> <i>Password protection R/W.</i>	<i>64</i> bit Unique <b>ID</b> entifier (UID). Password (32 bit) protected EAS and <i>AFI</i> functionality. <i>Write protection for each user memory block.</i> <i>Password protection R/W.</i> <i>Extensive security.</i>
<b>EEPROM Memory Write- / read-function;</b>	<i>1024</i> bit, <i>32</i> blocks with 4 bytes each	<i>2656</i> bit, <i>84</i> blocks with 4 bytes each	<i>2880</i> bit, <i>90</i> blocks with 4 bytes each
<b>User data memory</b>	<i>896</i> bit, <i>28</i> blocks with 4 bytes each	<i>2528</i> bit, <i>80</i> blocks with 4 bytes each	<i>2112</i> bit, <i>66</i> blocks with 4 bytes each
<b>Max. write endurance</b>	100 000 cycles	100 000 cycles	100 000 cycles
<b>Operating-temperature</b>	-40° C to +85° C (reading / writing of <b>NeoTAG®</b> )	-40° C to +85° C (reading / writing of <b>NeoTAG®</b> )	-40° C to +85° C (reading / writing of <b>NeoTAG®</b> )
<b>Data-retention</b>	50 years at ≤ +55° C	50 years at ≤ +55° C	60 years at ≤ +55° C
<b>Fast data transfer rate</b>	Up to <i>53</i> kbit / per second	Up to <i>53</i> kbit / per second	Up to <i>53</i> kbit / per second
<b>Simultaneous reading (Bulk Read)</b>	Up to <i>60</i> <b>NeoTAG®</b> per second (depending on reading device / antenna)	Up to <i>90</i> <b>NeoTAG®</b> per second (depending on reading device / antenna)	Up to <i>60</i> <b>NeoTAG®</b> per second (depending on reading device / antenna)



\*2) According to manufacturer data specifications NXP. For more details please check [www.nxp.com](http://www.nxp.com)

\*3) According to manufacturer data specifications EM Microelectronic. For more details please check [www.emmicroelectronic.com](http://www.emmicroelectronic.com)

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# HF 13.56 MHz **NEOTAG**® Inlay/Plug/Flag/SMD

## Reading distance

<p><b>Typical reading distance</b></p>	<p>with NFC compatible mobile devices (e.g. smartphones), e.g. Apple iPhone</p> 	<p><b>Use in non metal</b></p> <table border="1"> <tr> <td>min. 8 mm</td> <td>F2659 FG10340 FG4670 FG7678</td> </tr> <tr> <td colspan="2"><b>Use in metal (stainless steel*4)</b></td> </tr> <tr> <td>min. 5 mm</td> <td>MF2659 MFG10340</td> </tr> <tr> <td colspan="2"><b>Use on metal (stainless steel*4)</b></td> </tr> <tr> <td>min. 5 mm</td> <td>FG7678</td> </tr> </table>	min. 8 mm	F2659 FG10340 FG4670 FG7678	<b>Use in metal (stainless steel*4)</b>		min. 5 mm	MF2659 MFG10340	<b>Use on metal (stainless steel*4)</b>		min. 5 mm	FG7678									
	min. 8 mm	F2659 FG10340 FG4670 FG7678																			
<b>Use in metal (stainless steel*4)</b>																					
min. 5 mm	MF2659 MFG10340																				
<b>Use on metal (stainless steel*4)</b>																					
min. 5 mm	FG7678																				
<p>with reading device and special reader antenna (point measurement) <b>INDUSTRIA RFID-USB-READER4</b></p> 	<p><b>Use in non metal</b></p> <table border="1"> <tr> <td>min. 3 mm</td> <td>G3326</td> </tr> <tr> <td>min. 5 mm</td> <td>FG4335, F2626 FG8336, FG5242 SMD4530</td> </tr> <tr> <td>min. 8 mm</td> <td>FG 2659 FG10340 FG4670 FG7678</td> </tr> <tr> <td colspan="2"><b>Use in metal (stainless steel*4)</b></td> </tr> <tr> <td>min. 1 mm</td> <td>MG3326</td> </tr> <tr> <td>min. 3 mm</td> <td>MFG4335 MF2626 FG8336</td> </tr> <tr> <td>min. 5 mm</td> <td>MF2659 MFG10340</td> </tr> <tr> <td colspan="2"><b>Use on metal (stainless steel*4)</b></td> </tr> <tr> <td>min. 3 mm</td> <td>FG5242</td> </tr> <tr> <td>min. 5 mm</td> <td>FG7678</td> </tr> </table>	min. 3 mm	G3326	min. 5 mm	FG4335, F2626 FG8336, FG5242 SMD4530	min. 8 mm	FG 2659 FG10340 FG4670 FG7678	<b>Use in metal (stainless steel*4)</b>		min. 1 mm	MG3326	min. 3 mm	MFG4335 MF2626 FG8336	min. 5 mm	MF2659 MFG10340	<b>Use on metal (stainless steel*4)</b>		min. 3 mm	FG5242	min. 5 mm	FG7678
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min. 5 mm	FG7678																				

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\*4) Different materials may require tuning of the transponder to achieve optimal reading performance. We support you with customized solutions and look forward to receive your specification.

The reading range is depending on reading device, antenna, the installation situation and the environmental conditions. For further information according reading ranges see our product info technical information HF-RFID-transponder.

# HF 13.56 MHz **NEOTAG**® Inlay/Plug/Flag/SMD

## Ambient temperatures, further characteristics

		<i>Plug 3326</i>	<i>Inlay</i>	<i>Plug</i>	<i>SMD</i>	<i>Flag</i>
<b>Special ambient temperatures</b>	+180° C (to 90 hous / 14 cycles)* <sup>5)</sup>	✓	✓	✓		✓
	+200° C (to 5 hours / 100 cycles) * <sup>5)</sup>		✓	✓		✓
	+220° C (to 2 hours / 167 cycles) * <sup>5)</sup>		✓	✓		
	+275° C (15 minutes / 1 cycle) * <sup>5)</sup>		✓	✓		
<b>Qualification</b>	Temperature shock and humidity according MIL-STD-202 standard.	✓	✓	✓	✓	✓
	Ultrasonic bath for 15 minutes at 60° C in distilled water.	✓	✓	✓		✓
	Drop test 100 x from 2 meters height on concrete in reference block.	✓	✓	✓		✓
	IPX8 Protection	✓		✓		✓
<b>Special characteristic</b>	With press fit case for quick and easy assembly.	✓		✓		
	Flexible options of incorporation and assembly: glue, shed, overmolding or customized solutions		✓			
	Reflow soldering according JEDEC J-STD-020E. For use in assembly machines.				✓	
	Cable ties and other mounting elements.					✓

\*<sup>5)</sup> Temperature load above specified operating temperature +55°C is only allowed short-term and is decreasing the data retention time. The number of cycles is reference value according NXP and related to the data retention time shown in NXP data sheet. Read and write operation is only allowed inside operating temperature -40°C to +85°C. Alternative temperature duration specification on request.

### Note on recommendations and drawings:

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

For information according further characteristics see our product info technical information HF-RFID-transponder.

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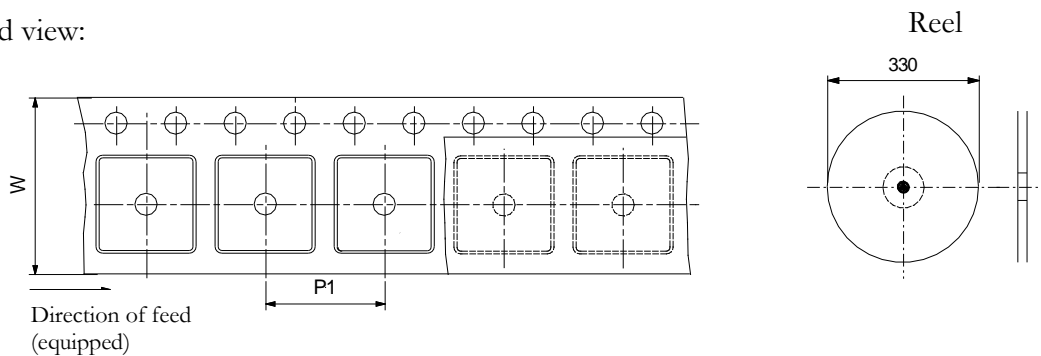
# HF 13.56 MHz **NEOTAG**® Inlay/Plug/Flag/SMD

## Packaging

### Tape and Reel

NeoTAG® Type	pcs / reel	Reel width W [mm]	Part distance P1 [mm]
NeoTAG® Inlay F/MF2626	6000	8.0	4.0
NeoTAG® Inlay F/MF2659	2400	16.0	8.0
NeoTAG® Plug G/MG3326	2000	12.0	8.0
NeoTAG® Plug FG/MFG4335	1700	12.0	8.0
NeoTAG® Plug FG8336	1200	16.0	12.0
NeoTAG® Plug FG4670	2000	16.0	8.0
NeoTAG® SMD FG4530	2800	12.0	8.0

Simplified view:



### Polybag

NeoTAG® Type	pcs / polybag	Bag width [mm]	Bag height [mm]
NeoTAG® Plug FG/MFG10340	500	70	100
NeoTAG® Flag FG5242	500	70	100
NeoTAG® Flag FG7678	500	70	100

### General information

- UID numbers as text file on request.
- Blisterpack designed according DIN EN 60286/3:2014.
- Storage- and transport conditions (in Blisterpack): +10°C ... +40°C, ≤70% rel. humidity, dark storage and transport conditions.
- Alternative packaging on request.

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