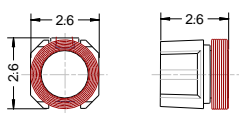
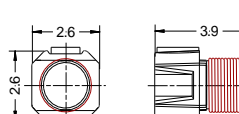
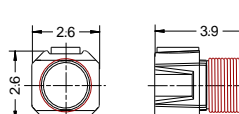
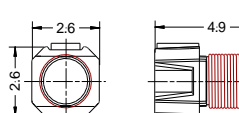
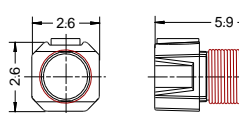
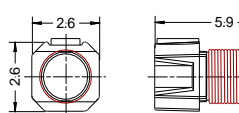


# HF 13.56 MHz **NEOTAG®** Inlay/Plug/Flag/SMD For metal and non metal objects

## Applications

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



NeoTAG® Type	Part No.	IC-Chip	Application*2	Mounting [mm]
<b>NeoTAG® Inlay 2626</b> max. size: 2.6 x 2.6 x 2.6 mm 	00 7040 30	SLIX	<b>F2626</b> non metal	Hole min. Ø 2.7; t = 2.7
	00 7043 30 00 7042 30	SLIX2 EM 4237		
<b>NeoTAG® Inlay 2639</b> max. size: 2.6 x 2.6 x 3.9 mm 	00 7040 31	SLIX	<b>MF2626</b> metal	Hole min. Ø 3.5; t = 2.7 NeoTAG centrally
	00 7043 31 00 7042 31	SLIX2 EM 4237		
<b>NeoTAG® Inlay 2639</b> max. size: 2.6 x 2.6 x 3.9 mm 	00704130	SLIX	<b>F2639</b> non metal	Hole min. Ø 2.7; t = 4.0
	00704131	SLIX	<b>MF2639</b> metal	Hole min. Ø 4.0; t = 4.0 NeoTAG centrally
<b>NeoTAG® Inlay 2649</b> max. size: 2.6 x 2.6 x 4.9 mm 	00705130	SLIX	<b>F2649</b> non metal	Hole min. Ø 2.7; t = 5.0
	00705131	SLIX	<b>MF2649</b> metal	Hole min. Ø 4.0; t = 5.0 NeoTAG centrally
<b>NeoTAG® Inlay 2659</b> max. size: 2.6 x 2.6 x 5.9 mm 	00 7050 32	SLIX	<b>F2659</b> non metal	Hole min. Ø 2.7; t = 6.2
	00 7043 00 00 7052 30	SLIX2 EM 4237		
<b>NeoTAG® Inlay 2659</b> max. size: 2.6 x 2.6 x 5.9 mm 	00 7050 31	SLIX	<b>MF2659</b> metal	Hole min. Ø 10.0 t = 6,2 NeoTAG centrally
	00 7043 01 00 7052 31	SLIX2 EM 4237		

new



new



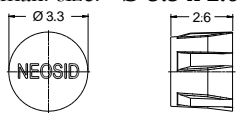
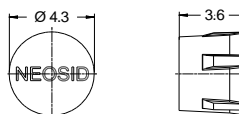
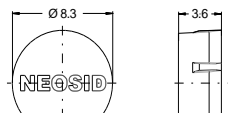
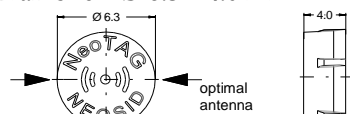


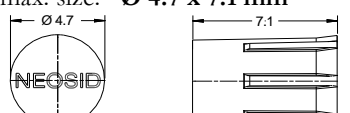
Alle Angaben ohne Gewähr. Irrtümer und Änderungen vorbehalten. No responsibility is taken for the correctness. Errors and changings reserved.

Fully automatic production in Germany. 100% output test of working frequency and function.

\*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.

\*2 The transponders for metal applications shown here are designed for use in stainless steel (X2CrNi12). For other metals, an adapted adjustment may be advisable. Please contact us for an optimal transponder adjustment in your metal application. For further information on this topic, please refer to the [RFID FAQs](#) on our website.

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

NeoTAG® Type	Part No.	IC-Chip	Application*2	Mounting [mm]
<b>NeoTAG® Plug 3326</b> max. size: <b>Ø 3.3 x 2.6 mm</b> 	00 7060 32	SLIX	<b>G3326</b> non metal	Hole Ø 3.0 ± 0.05 min. t = 2.7 Press fit case
	00 7060 36	SLIX2		
	00 7060 34	EM 4237		
	00 7060 33	SLIX	<b>MG3326</b> metal	
	00 7060 37	SLIX2		
00 7060 35	EM 4237			
<b>NeoTAG® Plug 4335</b> max. size: <b>Ø 4.3 x 3.6 mm</b> 	00 7040 32	SLIX	<b>FG4335</b> non metal	Hole Ø 4.0 ± 0.05 min. t = 3.7 Press fit case
	00 7043 32	SLIX2		
	00 7042 32	EM 4237		
	00 7040 33	SLIX	<b>MFG4335</b> metal	
	00 7043 33	SLIX2		
00 7042 33	EM 4237			
<b>NeoTAG® Plug 8336</b> max. size: <b>Ø 8.3 x 3.6 mm</b> 	00 7040 38	SLIX	<b>FG8336</b> non metal <b>and</b> metal	Hole Ø 8.0 ± 0.05 min. t = 3.7 Press fit case
	00 7043 38	SLIX2		
	00 7042 38	EM 4237		
<b>NeoTAG® Plug 6340</b> max. size: <b>Ø 6.3 x 4.0 mm</b> 	00 7041 32	SLIX	<b>FG6340</b> non metal	Hole Ø 6.0 ± 0.05 min. t = 4.1 Press fit case
	00 7041 33	SLIX	<b>MFG6340</b> metal	
<b>NeoTAG® Plug 8340</b> max. size: <b>Ø 8.3 x 4.0 mm</b> 	00 7051 32	SLIX	<b>FG8340</b> non metal	Hole Ø 8.0 ± 0.05 min. t = 4.1 Press fit case
	00 7051 33	SLIX	<b>MFG8340</b> metal	
<b>NeoTAG® Plug 10340</b> max. size: <b>Ø 10.3 x 4.0 mm</b> 	00 7050 16	SLIX	<b>FG10340</b> non metal	Hole Ø 10.0 ± 0.05 min. t = 4.1 Press fit case
	00 7043 16	SLIX2		
	00 7052 16	EM 4237		
	00 7050 17	SLIX	<b>MFG10340</b> metal	
	00 7043 17	SLIX2		
00 7052 17	EM 4237			
<b>NeoTAG® Plug 4670</b> max. size: <b>Ø 4.7 x 7.1 mm</b> 	00 7050 38	SLIX	<b>FG4670</b> non metal	Hole Ø 4.3 ± 0.05 min. t = 7.1 Press fit case
	00 7043 02	SLIX2		
	00 7052 32	EM 4237		

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**new**



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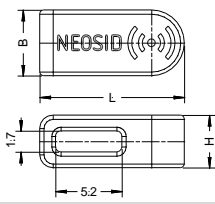

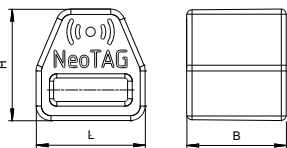

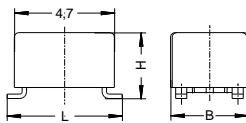

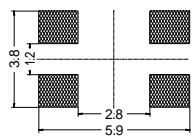
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For further information see our product info [Technical information HF-RFID-transponder](#).



Readable and writable by many mobile devices with NFC function.

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

NeoTAG <sup>®</sup> Type	Part No.	IC-Chip	Application* <sup>2</sup>	Mounting [mm]
<b>NeoTAG<sup>®</sup> Flag 5242</b> max. size: L x B x H <b>11.2 x 5.15 x 4.15 mm</b> 	 Weight 0.26 g/piece	00 7040 90 00 7043 90 00 7042 90	SLIX SLIX2 EM 4237 <b>FG5242</b> non metal and metal	Cable ties and more mounting elements up to 4.8 width or Ø 1.3
<b>NeoTAG<sup>®</sup> Flag 7678</b> max. size: L x B x H <b>7.6 x 7.1 x 7.75 mm</b> 	 Weight 0.43 g/piece	00 7040 91 00 7043 91 00 7042 91	SLIX SLIX2 EM 4237 <b>FG7678</b> non metal and metal	Cable ties and more mounting elements up to 4.8 width or Ø 1.3
<b>NeoTAG<sup>®</sup> SMD 4530</b> max. size: L x B x H <b>5.4 x 3.7 x 3.1 mm</b> 	 Weight 0.09 g/piece	00 7040 34 00 7043 34 00 7042 34	SLIX SLIX2 EM 4237 <b>FG4530</b> non metal	 Solder areas - recommendation

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

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

\*4 According to manufacturer data specifications EM Microelectronic. For more details please check [www.emmicroelectronic.com](http://www.emmicroelectronic.com)

For further information see our product info [Technical information HF-RFID-transponder](#).

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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>		
	min. 6 mm	F2639 FG6340		
	min. 7 mm	F2649 FG8340		
	min. 8 mm	F2659 FG10340 FG4670 FG7678		
	<p><b>Use in metal (stainless steel*<sup>2</sup>)</b></p>			
	min. 4 mm	MF2639 MFG6340		
	min. 5 mm	MF2649 MFG8340 MF2659 MFG10340		
	<p><b>Use on metal (stainless steel*<sup>2</sup>)</b></p>			
	min. 5 mm	FG7678		

\*<sup>2</sup>The transponders for metal applications shown here are designed for use in stainless steel (X2CrNi12). For other metals, an adapted adjustment may be advisable. Please contact us for an optimal transponder adjustment in your metal application.

Reading distances depend on reading device, antenna, installation situation and environmental conditions.  
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# HF 13.56 MHz **NEOTAG**® Inlay/Plug/Flag/SMD

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Typical reading distance	with reading device and special reader antenna (point measurement) <b>INDUSTRIA RFID-USB-READER4</b>	Use in non metal	
		min. 3 mm	G3326
		min. 5 mm	F2626 FG4335 FG5242 FG8336 SMD4530
		min. 6 mm	F2639 FG6340
		min. 7 mm	F2649 FG8340
		min. 8 mm	FG 2659 FG10340 FG4670 FG7678
		Use in metal (stainless steel*2)	
		min. 1 mm	MG3326
		min. 3 mm	MF2626 MFG4335 FG8336
		min. 4 mm	MF2639 MFG6340
		min. 5 mm	MF2649 MFG8340 MF2659 MFG10340
		Use on metal (stainless steel*2)	
		min. 3 mm	FG5242
min. 5 mm	FG7678		



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Reading distances depend on reading device, antenna, installation situation and environmental conditions.  
 For further information see our product info [Technical information HF-RFID-transponder](#).



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

## Ambient temperatures, further characteristics

		<u>Plug 3326</u>	<u>Inlay</u>	<u>Plug</u>	<u>SMD</u>	<u>Flag 5242</u>	<u>Flag 7678</u>
<b>Special ambient temperatures</b>	+180° C (to 90 hours / 14 cycles) *5	✓	✓	✓		✓	✓
	+200° C (to 5 hours / 100 cycles) *5		✓	✓		✓	✓
	+220° C (to 2 hours / 167 cycles) *5		✓	✓			
	+275° C (15 minutes / 1 cycle) *5		✓	✓			
<b>Qualification</b>	Humidity resistance according MIL-STD-202 *5	✓	✓	✓	✓	✓	✓
	Temperature shock according MIL-STD-202 extended to +150° C *5	✓	✓	✓			
	Temperature shock according MIL-STD-202 to +125° C *5				✓	✓	
	Temperature shock according MIL-STD-202 to +100° C *5						✓
	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					✓	✓

\*5 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.

For Plug-transponders, the specified properties apply when mounted in a corresponding object (metal/non metal).

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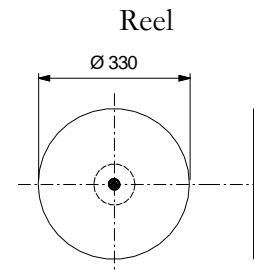
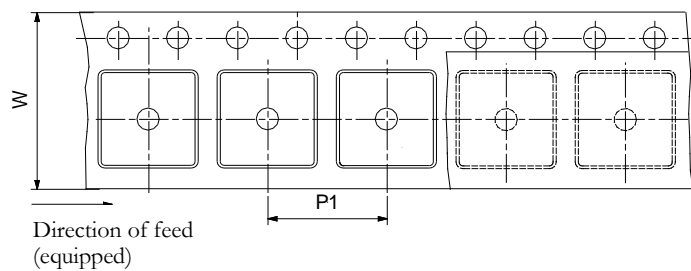
# HF 13.56 MHz **NEOTAG**<sup>®</sup> Inlay/Plug/Flag/SMD

## Packaging

### Tape and Reel

NeoTAG <sup>®</sup> Type	pcs / reel	Reel width W [mm]	Part distance P1 [mm]
NeoTAG <sup>®</sup> Inlay F/MF2626	6000	8.0	4.0
NeoTAG <sup>®</sup> Inlay F/MF2639	1500	12.0	12.0
NeoTAG <sup>®</sup> Inlay F/MF2649	2400	16.0	8.0
NeoTAG <sup>®</sup> Inlay F/MF2659	2400	16.0	8.0
NeoTAG <sup>®</sup> Plug G/MG3326	2000	12.0	8.0
NeoTAG <sup>®</sup> Plug FG/MFG4335	1700	12.0	8.0
NeoTAG <sup>®</sup> Plug FG8336	1200	16.0	12.0
NeoTAG <sup>®</sup> Plug FG4670	2000	16.0	8.0
NeoTAG <sup>®</sup> SMD FG4530	2800	12.0	8.0

Simplified view:



### Polybag

NeoTAG <sup>®</sup> Type	pcs / polybag	Bag width [mm]	Bag height [mm]
NeoTAG <sup>®</sup> Plug FG/MFG6340	500	70	100
NeoTAG <sup>®</sup> Plug FG/MFG8340	500	70	100
NeoTAG <sup>®</sup> Plug FG/MFG10340	500	70	100
NeoTAG <sup>®</sup> Flag FG5242	500	70	100
NeoTAG <sup>®</sup> Flag FG7678	500	70	100

### General information

- UID numbers as text file on request.
- Blisterpack designed according DIN EN 60286-3:2014-02
- 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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