

product type designation



**RF320T transponder**

SIMATIC RF300 transponder RF320T button, 20 byte EEPROM, IP67, -25 to +125 °C, D= 27x 4 mm, minimum order quantity 20 units

suitability for operation

RF300

product brand name

SIMATIC RF

Technical Product Detail Page

<https://l.siemens.com/1P6GT2800-1CA00>

### radio frequencies

operating frequency / rated value

13.56 MHz

range / maximum

60 mm; range is reader dependent: observe  
<http://support.automation.siemens.com/WW/view/en/67384964>

protocol / with radio transmission

RF300-specific

transfer rate / with radio transmission / maximum

106 kbit/s

product feature / multitag-capable

Yes

### electrical data

product component / backup battery

No

### memory

type of memory

EEPROM

storage capacity / of the user memory

20 byte

type of memory organization

UID (fixed code) 4 bytes, user memory 20 bytes,

number of read cycles / at ambient temperature < 40 °C / maximum

1E+14

number of write cycles / at ambient temperature < 40 °C / maximum

100000

data retention time / at ambient temperature < 40 °C / not less than

10 a

property of memory

Block-by-block write protection of the user memory

### mechanical data

material

Epoxy resin

color

black

mounting distance / relating to metal surfaces / recommended / minimum

20 mm

### ambient conditions

ambient temperature

- during read/write access -25 ... +125 °C
- outside the read/write area -40 ... +140 °C
- during storage -40 ... +140 °C

protection class IP

IP67/IPx9K

shock resistance

According to DIN EN 60721-3-7 Class 7 M3

shock acceleration

1000 m/s<sup>2</sup>

vibrational acceleration

200 m/s<sup>2</sup>

### design, dimensions and weights

height

4 mm

diameter	27 mm
net weight	5 g
fastening method	M3 screw, gluing

**product features, product functions, product components / general**

product feature	
<ul style="list-style-type: none"> <li>silicon-free</li> <li>printable</li> </ul>	<p>Yes</p> <p>No</p>

**standards, specifications, approvals**

certificate of suitability	
<ul style="list-style-type: none"> <li>IECEX</li> <li>cULus approval</li> </ul>	<p>No</p> <p>Yes</p>
MTBF	1800 a

**standards, specifications, approvals / Environmental Product Declaration**

Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> <li>total</li> <li>during manufacturing</li> <li>during operation</li> <li>after end of life</li> </ul>	<p>0.93 kg</p> <p>0.88 kg</p> <p>0.00041 kg</p> <p>0.05 kg</p>

**accessories**

accessories	Mounting support and spacer
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**further information / internet links**

internet link	
<ul style="list-style-type: none"> <li>to web page: selection aid TIA Selection Tool</li> <li>to web page: identification and localization systems</li> <li>to web page: SiePortal</li> <li>to website: Image database</li> <li>to website: CAx-Download-Manager</li> <li>to website: Industry Online Support</li> </ul>	<p><a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a></p> <p><a href="https://www.siemens.com/ident">https://www.siemens.com/ident</a></p> <p><a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a></p> <p><a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a></p> <p><a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a></p> <p><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></p>

**security information**

security information	<p>Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a>. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a>. (V4.7)</p>
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**Approvals / Certificates**

**General Product Approval**



[China RoHS](#)

[Miscellaneous](#)

General Product Approval	EMV	Environment
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[Manufacturer Declaration](#)



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