

### Product type designation

### RF320T transponder

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



Suitability for operation

RF300

### Radio frequencies

Operating frequency / Rated value	13.56 MHz
Range / maximum	60 mm; range is reader dependent: observe <a href="http://support.automation.siemens.com/WW/view/en/67384964">http://support.automation.siemens.com/WW/view/en/67384964</a>
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	100000000000000
Number of write cycles / at ambient temperature < 40 °C / maximum	1000000

Data retention time / at ambient temperature < 40 °C / not less than	10 y
Property of memory	Block-by-block write protection of the user memory
<b>Mechanical data</b>	
Material	Epoxy resin
Color	black
Mounting distance / relating to metal surfaces / recommended / minimum	20 mm
<b>Ambient conditions</b>	
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>
<b>Design, dimensions and weights</b>	
Height	4 mm
Diameter	27 mm
Net weight	5 g
Mounting type	M3 screw, gluing
<b>Product features, product functions, product components / general</b>	
Product feature	
• silicon-free	Yes
• printable	No
<b>Standards, specifications, approvals</b>	
Certificate of suitability	
• IECEx	No
MTBF	1800 y
<b>accessories</b>	
accessories	Mounting support and spacer
<b>Further information / Internet-Links</b>	
Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	<a href="https://support.industry.siemens.com/cs/ww/en/view/67384964">https://support.industry.siemens.com/cs/ww/en/view/67384964</a>
• to website: Industrial communication	<a href="http://www.siemens.com/ident/rfid">http://www.siemens.com/ident/rfid</a>
• to website: Industry Mall	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
• to website: Information and Download Center	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
• to website: Image database	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>

- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

**last modified:**

05/12/2020