SIEMENS

Product type designation

RF320T transponder

SIMATIC RF300 TRANSPONDER RF320T BUTTON, 20 BYTE EEPROM, IP 67, -25 TO +125 DEGR/C, D=27 MM X 4 MM MIN. ORDER QUANTITY 20 PCS

Wireless frequencies	
Operating frequency / Rated value	13.56 MHz

Electrical data	
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 property / multitag-capable	Yes
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	100000
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

Mechanical data	
Material	Epoxy resin
Color	black

Mounting distance / relating to metal surfaces / recommended / minimum	20 mm

Permitted ambient conditions

Ambient temperature	
• during read/write access	-25 ... +125 °C
• outside the read/write area	-40 ... +150 °C
• during storage	-40 ... +150 °C
Protection class IP	IP67 / IPx9K
Shock resistance	According to DIN EN 60721-3-7 Class 7 M3
Shock acceleration	1000 m/s²
Resistance against vibration	200 m/s²

Design, dimensions and weight

Height	4 mm
Diameter	27 mm
Net weight	5 g
Mounting type	M3 screw, gluing

Product properties, functions, components / general

Product property	
• silicon-free	Yes
• printable	No

Standards, specifications, approvals

MTBF	1800 y

Accessories

accessories	Mounting support and spacer

Further Information / Internet Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/automation/net/catalog
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
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