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Data sheet 6GT2800-1CA00

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
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/s²
vibrational acceleration	200 m/s²
design, dimensions and weights	
height	4 mm
diameter	27 mm
net weight	5 g
fastening method	M3 screw, gluing

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product features, product functions, product components / general	
product feature	
● silicon-free	Yes
● printable	No
standards, specifications, approvals	
certificate of suitability	
● IECEx	No
● cULus approval	Yes
MTBF	1800 a
reference code	
● according to IEC 81346-2:2019	CFA
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
● total	0.93 kg
● during manufacturing	0.88 kg
● during operation	0.00041 kg
● after end of life	0.05 kg
accessories	
accessories	Mounting support and spacer
further information / internet links	
internet link	
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to web page: identification and localization systems	https://www.siemens.com/ident
● to web page: SiePortal	https://sieportal.siemens.com/
● to website: Image database	https://www.automation.siemens.com/bilddb
● to website: CAx-Download-Manager	https://www.siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	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 www.siemens.com/cybersecurity-industry. 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 https://www.siemens.com/cert. (V4.7)

Approvals / Certificates

General Product Approval				EMV	
UKCA	CE EG-Konf.	CCC	EAC	Miscellaneous	KC

Environment

Confirmation	EPD

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