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Data sheet 6GT2800-5DA00

product type designation	RF380T transponder
	SIMATIC RF300 transponder RF380T heat-resistant, 32 KB FRAM IP68, -25 to max.+220 °C cyclically, D=114 mm, H=83 mm



suitability for operation	RF300
product brand name	SIMATIC RF
Technical Product Detail Page	https://i.siemens.com/1P6GT2800-5DA00
radio frequencies	
operating frequency / rated value	13.56 MHz
range / maximum	160 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	No
electrical data	
product component / backup battery	No
memory	
type of memory	FRAM / EEPROM
storage capacity / of the user memory	32765 byte
type of memory organization	UID (fixed code) 4 bytes, user memory 32765 bytes, OTP memory 20 bytes
number of read cycles / at ambient temperature < 40 °C / maximum	1E+10
number of write cycles / at ambient temperature < 40 °C / maximum	1E+10
data retention time / at ambient temperature < 40 °C / not less than	10 a
property of memory	Block-by-block write protection of the OTP memory
mechanical data	
material	PPS
color	brown or anthracite
mounting distance / relating to metal surfaces / recommended / minimum	0 mm
ambient conditions	
ambient temperature	
• during read/write access	-25 ... +110 °C
• outside the read/write area	-40 ... +220 °C
• during storage	-40 ... +110 °C
ambient condition / for operation	Cyclic operation at ambient temperature >110 °C
protection class IP	IP68
shock resistance	According to DIN EN 60721-3-7 Class 7 M3
shock acceleration	500 m/s²
vibrational acceleration	200 m/s²
design, dimensions and weights	

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height	83 mm
diameter	114 mm
net weight	900 g
fastening method	mount (see accessories)
product features, product functions, product components / general	
product feature	
● silicon-free	Yes
● printable	No
standards, specifications, approvals	
certificate of suitability	
● IECEx	Yes
● for IECEx / as marking	Ex: II 3G Ex nC IIB T5
● cULus approval	Yes
MTBF	1200 a
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
● total	9.985 kg
● during manufacturing	9 kg
● during operation	0 kg
● after end of life	0.807 kg
accessories	
accessories	Skid holder, shrouding cover, universal holder
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





China RoHS

Manufacturer Declaration



Miscellaneous

General Product Approval	EMV	For use in hazardous locations	Environment

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Manufacturer Declaration





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last modified: 3/10/2026

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