SIEMENS

Product type designation

Data sheet

6GT2800-5DA00

RF380T transponder

SIMATIC RF300 TRANSPONDER RF380T HEAT-PROOF, 32 KB FRAM, IP 68, -25 UP TO MAX. +220 DGR/C CYCLIC, D=114 MM, H=83 MM

Operating frequency / Rated value 13.56 MHz Electrical data Range / maximum 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 property / multitag-capable Yes Product component / Backup battery No Memory Type of memory Type of memory organization FRAM/EEPROM Storage capacity / of the user memory 32765 byte Type of read cycles / at ambient temperature < 40 1000000000 °C / maximum 1000000000 Mumber of write cycles / at ambient temperature < 40 °C 10 y / not less than Property of memory Property of memory Block-by-block write protection of the OTP memory Material PPS Color brown	Wireless frequencies	
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 property / multitag-capable Yes Product component / Backup battery No Memory Type of memory Type of memory organization 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	Operating frequency / Rated value	13.56 MHz
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 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	Electrical data	
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 Type of memory organization 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	Range / maximum	160 mm; range is reader dependent: observe
Transfer rate / with radio transmission / maximum106 kbit/sProduct property / multitag-capableYesProduct component / Backup batteryNoMemoryFRAM/EEPROMType of memoryFRAM/EEPROMStorage capacity / of the user memory32765 byteType of memory organizationUID (fixed code) 4 bytes, user memory 32765 bytes, OTP memory 20 bytesNumber of read cycles / at ambient temperature < 40		http://support.automation.siemens.com/WW/view/en/67384964
Product property / multitag-capable Yes Product component / Backup battery No Memory Type of 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	Protocol / with radio transmission	RF300-specific
Product component / Backup battery No 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	Transfer rate / with radio transmission / maximum	106 kbit/s
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	Product property / multitag-capable	Yes
Type of memoryFRAM/EEPROMStorage capacity / of the user memory32765 byteType of memory organizationUID (fixed code) 4 bytes, user memory 32765 bytes, OTP memory 20 bytesNumber of read cycles / at ambient temperature < 40	Product component / Backup battery	No
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	Memory	
Type of memory organizationUID (fixed code) 4 bytes, user memory 32765 bytes, OTP memory 20 bytesNumber of read cycles / at ambient temperature < 40 °C / maximum1000000000Number of write cycles / at ambient temperature < 40 °C / maximum1000000000Data retention time / at ambient temperature < 40 °C / not less than10 yProperty of memoryBlock-by-block write protection of the OTP memoryMechanical dataPPS	Type of memory	FRAM/EEPROM
20 bytes Number of read cycles / at ambient temperature < 40	Storage capacity / of the user memory	32765 byte
Number of read cycles / at ambient temperature < 40	Type of memory organization	UID (fixed code) 4 bytes, user memory 32765 bytes, OTP memory
°C / maximum Number of write cycles / at ambient temperature < 40		20 bytes
Number of write cycles / at ambient temperature < 40		100000000
°C / maximum Pata retention time / at ambient temperature < 40 °C	°C / maximum	
Data retention time / at ambient temperature < 40 °C		100000000
/ not less than Property of memory Block-by-block write protection of the OTP memory		
Property of memory Block-by-block write protection of the OTP memory Mechanical data PPS	-	10 у
Mechanical data Material PPS		
Material PPS	Property of memory	Block-by-block write protection of the OTP memory
	Mechanical data	
Color brown	Material	PPS
	Color	brown

Mounting distance / relating to metal surfaces / recommended / minimum	0 mm	
Permitted 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/s ²	
Resistance against vibration	200 m/s ²	
Design, dimensions and weight		
Height	83 mm	
Diameter	114 mm	
Net weight	900 g	
Mounting type	mount (see accessories)	
Product properties, functions, components / general Product property		
• silicon-free	Yes	
• printable	No	
·		
Standards, specifications, approvals		
Certificate of suitability	Ex: II 3G Ex nC IIB T5	
MTBF	1200 у	
Accessories		
accessories	Skid holder, shrouding cover, universal holder	
Further Information / Internet Links		
Internet-Link	http://www.sigmons.com/cost	
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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