SIEMENS

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
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	Yes
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	10000000000
number of write cycles / at ambient temperature < 40 °C / maximum	10000000000
data retention time / at ambient temperature < 40 °C / not less than	10 y
property of memory	Block-by-block write protection of the OTP memory
mechanical data	
material	PPS
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	
height	83 mm
diameter	114 mm

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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
MTBF	1200 y

accessories	
accessories	Skid holder, shrouding cover, universal holder

further information / internet-Links	
Internet-Link	
● to web page: selection aid TIA Selection Tool	https://support.industry.siemens.com/cs/ww/en/view/67384964
● to website: Industrial communication	http://www.siemens.com/ident/rfid
● to website: Industry Mall	https://mall.industry.siemens.com
● to website: Information and Download Center	http://www.siemens.com/industry/infocenter
● 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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