

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

Technical Product Detail Page

<https://l.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	Yes

electrical data

product component / backup battery	No
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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/s ²
vibrational acceleration	200 m/s ²

design, dimensions and weights

height	83 mm
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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	9.99 kg				
• during manufacturing	9 kg				
• during operation	0.18 kg				
• after end of life	0.81 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					
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Approvals / Certificates					
General Product Approval					
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EG-Konf.	CCC				UL
General Product Approval	EMV	For use in hazardous locations	Environment		

[Miscellaneous](#)

[KC](#)



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