

### 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 <a href="http://support.automation.siemens.com/WW/view/en/67384964">http://support.automation.siemens.com/WW/view/en/67384964</a>
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	1000000000
number of write cycles / at ambient temperature < 40 °C / maximum	1000000000
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
color	brown or anthracite
mounting distance / relating to metal surfaces / recommended / minimum	0 mm

### ambient conditions

ambient temperature	<ul style="list-style-type: none"> <li>• during read/write access -25 ... +110 °C</li> <li>• outside the read/write area -40 ... +220 °C</li> <li>• during storage -40 ... +110 °C</li> </ul>
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 <sup>2</sup>
vibrational acceleration	200 m/s <sup>2</sup>

### design, dimensions and weights

height	83 mm
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diameter	114 mm
net weight	900 g
fastening method	mount (see accessories)
<b>product features, product functions, product components / general</b>	
product feature	
• silicon-free	Yes
• printable	No
<b>standards, specifications, approvals</b>	
certificate of suitability	
• IECEx	Yes
• for IECEx / as marking	Ex: II 3G Ex nC IIB T5
MTBF	1200 y
<b>accessories</b>	
accessories	Skid holder, shrouding cover, universal holder
<b>further information / internet-Links</b>	
Internet-Link	
• to web page: selection aid TIA Selection Tool	<a href="https://support.industry.siemens.com/cs/ww/en/view/67384964">https://support.industry.siemens.com/cs/ww/en/view/67384964</a>
• to website: Industrial communication	<a href="http://www.siemens.com/ident/rfid">http://www.siemens.com/ident/rfid</a>
• to website: Industry Mall	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
• to website: Information and Download Center	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
• to website: Image database	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
• to website: CAx-Download-Manager	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
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