

product type designation

Transponder RF682L (special variant)

SIMATIC RF682L SmartLabel NOMEX, 103.7 x 70 x 0.4 mm ISO 18000-63, EPC Class 1 Gen 2 frequency 865 to 928 MHz NXP UCODE 7xm-2k 448 bits (56 bytes) EPC ID 2048 bits (256 bytes) user memory fixing by mounting heat-resistant printable thermotransfer temperature from -40 °C to +200 °C IP67 1,000 units (fanfold) 10 cartons 10,000 units MOQ.



suitability for operation

RF600

Technical Product Detail Page

<https://l.siemens.com/1P6GT2810-2AG84-0AX3>

### radio frequencies

operating frequency	860 ... 960 MHz
range / maximum	6 m; observe system manual RF600: overrange is possible, 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	EPCglobal Class 1 Gen 2 / ISO 18000-63
transfer rate / with radio transmission / maximum	320 kbit/s
product feature / multitag-capable	Yes
polarization	Linear

### electrical data

product component / backup battery	No
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### memory

type of memory	EEPROM
storage capacity / of the user memory	256 byte
type of memory organization	EPC memory 96 bit (12 byte) expandable up to 448 bit (56 byte), user memory 2048 bit (256 byte), TID memory 96 bit (12 byte)
number of read cycles / at ambient temperature < 40 °C / maximum	1E+14
number of write cycles / at ambient temperature < 40 °C / maximum	100000
data retention time / at ambient temperature < 40 °C / not less than	10 a
property of memory	lock, unlock, kill, write protection, password protection
type of transponder chip used	NXP Ucode 7-xm 2k

### mechanical data

material	Paper
color	beige
mounting distance / relating to metal surfaces / recommended / minimum	3 mm

### ambient conditions

ambient temperature	
<ul style="list-style-type: none"> <li>during read/write access</li> <li>outside the read/write area</li> <li>during storage</li> </ul>	-25 ... +85 °C -40 ... +230 °C -40 ... +85 °C
ambient condition / for operation	Operating temperature permanent up to 85 °C, for 6 hours up to 200 °C, for 1 hour up to 220 °C, short-term up to 230 °C
protection class IP	IP67
resistance to mechanical stress	Torsion and bending stress conditionally permissible

design, dimensions and weights	
width	103.7 mm
height	0.4 mm
depth	70 mm
net weight	3 g
fastening method	screws
product features, product functions, product components / general	
product feature	
• silicon-free	Yes
• tamper-proof	No
• printable	Yes
printing process	Thermal transfer process
standards, specifications, approvals	
certificate of suitability	
• IECEx	No
further information / internet links	
internet link	
• to web page: selection aid TIA Selection Tool	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
• to web page: identification and localization systems	<a href="https://www.siemens.com/ident">https://www.siemens.com/ident</a>
• to web page: SiePortal	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>
• to website: Image database	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>
• to website: CAx-Download-Manager	<a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
security information	
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**Approvals / Certificates**

**General Product Approval**



[Manufacturer Declaration](#)

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