

SIMATIC RF682L SmartLabel NOMEX, 156 x 40 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 printed temperature from -40 °C to +200 °C IP67 1000 units in the box 10 boxes in the carton 10,000 units MOQ



suitability for operation	RF600
Technical Product Detail Page	https://l.siemens.com/1P6GT2810-2AG84-0AX2
radio frequencies	
operating frequency	860 ... 960 MHz
range / maximum	6 m; observe system manual RF600: overrange is possible, range is reader dependent: observe http://support.automation.siemens.com/WW/view/en/67384964
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
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"> during read/write access -25 ... +85 °C outside the read/write area -40 ... +230 °C during storage -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	156 mm
height	0.4 mm
depth	40 mm
fastening method	screws

product features, product functions, product components / general

product feature	
<ul style="list-style-type: none"> • silicon-free • tamper-proof • printable 	<p>Yes</p> <p>No</p> <p>Yes</p>
printing process	Thermal transfer process

standards, specifications, approvals

certificate of suitability	
<ul style="list-style-type: none"> • IECEx 	No

further information / internet links

internet link	
<ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool • to web page: identification and localization systems • to web page: SiePortal • to website: Image database • to website: CAX-Download-Manager • to website: Industry Online Support 	<p>https://www.siemens.com/tstcloud</p> <p>https://www.siemens.com/ident</p> <p>https://sieportal.siemens.com/</p> <p>https://www.automation.siemens.com/bilddb</p> <p>https://www.siemens.com/cax</p> <p>https://support.industry.siemens.com</p>

security information

security information	<p>Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)</p>
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Approvals / Certificates

General Product Approval	EMV
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EG-Konf.



[Manufacturer Declaration](#)

[KC](#)

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