SIEMENS

Data sheet 6GT2810-2BB80

product type designation	**RF610T transponder**
	SIMATIC RF610T (ETSI) PVC, 86 x 54 x 0.4 ISO 18000-63, EPC Class 1 Gen 2 frequency 865 to 868 MHz NXP UCODE 7xm-2k 448 bits (56 bytes) EPC ID 2048 bits (256 bytes) user memory fixing by mounting on metal printing not possible temperature from -40 °C to +125 °C IP67 50 units/carton 1 carton 50 units MOQ

suitability for operation	RF600
Technical Product Detail Page	https://i.siemens.com/1P6GT2810-2BB80
radio frequencies	
operating frequency	860 ... 960 MHz
range / maximum	5 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	PVC, food-safe
color	white
mounting distance / relating to metal surfaces / recommended / minimum	3 mm
ambient conditions	
ambient temperature	
● during read/write access	-25 ... +85 °C
● outside the read/write area	-40 ... +85 °C
● during storage	-40 ... +85 °C
protection class IP	IP67
shock resistance	According to DIN EN 60721-3-7 Class 7 M3
shock acceleration	1000 m/s²
vibrational acceleration	500 m/s²

resistance to mechanical stress	Torsion and bending stress conditionally permissible
design, dimensions and weights	
width	54 mm
height	0.4 mm
depth	86 mm
net weight	3 g
fastening method	gluing, cable tie, screwing
product features, product functions, product components / general	
product feature	
● tamper-proof	No
● printable	Yes
printing process	Thermal transfer process
standards, specifications, approvals	
certificate of suitability	
● IECEx	No
● cULus approval	Yes
MTBF	1712 a
accessories	
accessories	Fixing strap, spacer
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	
security information	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)

Approvals / Certificates

General Product Approval


China RoHS


Manufacturer Declaration

General Product Approval	EMV
	KC

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