## **SIEMENS**

## **Data sheet**

6GT2810-2AE83-0AX0

product type designation

## Transponder RF630L

SIMATIC RF630L SmartLabel PET white, 75x25 mm ISO 18000-6C, EPC Class 1 Gen 2 frequency 860 to 960 MHz chip type NXP Ucode 8 128 bit (16 bytes) EPC memory 0 bit (0 bytes) user memory strongly adhesive on plastic printable thermotransfer temperature from -25 °C to +130 °C roll 76.2 mm (3) core diameter 1,000 units/roll 10 rolls/carton 10,000 units MOQ washable.



product component / backup battery  memory  type of memory  storage capacity / of the user memory  type of memory organization  type of memory organization  number of write cycles / at ambient temperature < 40 °C / maximum  data retention time / at ambient temperature < 40 °C / not less than  property of memory  type of transponder chip used  material  material  material  mounting distance / relating to metal surfaces / recommended / minimum  No  EEPROM  EEPROM  10 byte  100000  10	suitability for operation	RF600
range / maximum    10 m; observe system manual RF600: overrange is possible, range is reader dependent: observe http://support.automation.siemens.com/WW/viewlen/67384964     Protocol / with radio transmission / maximum   S20 kbil/s     Product feature / multitag-capable   Yes     Product component / backup battery   No     Produ	radio frequencies	
dependent: observe http://support.automation.siemens.com/WW/view/en/67384964 protocol / with radio transmission	operating frequency	860 960 MHz
transfer rate / with radio transmission / maximum product feature / multitag-capable product feature / multitag-capable product component / backup battery  where of memory storage capacity / of the user memory ype of memory organization progenery of memory organization properly of memory organization properly of memory organization property of memory lata retention time / at ambient temperature < 40 °C / not less than property of memory property of memory property of fransponder chip used property of transponder organization property of transponder chip used property of tr	range / maximum	dependent: observe
product feature / multitag-capable President Selectrical data  product component / backup battery No  memory  type of memory EEPROM storage capacity / of the user memory 16 byte type of memory organization EPC 128 bit (16 byte), no user memory number of write cycles / at ambient temperature < 40 °C / maximum data retention time / at ambient temperature < 40 °C / not less than property of memory lock, unlock, kill, write protection, password protection type of transponder chip used NXP Ucode 8  material PET color white conditions mounting distance / relating to metal surfaces / recommended / minimum  ambient temperature during read/write access - 25 +85 °C outside the read/write area - 25 +85 °C outside the read/write area - 25 25 °C during storage - 5 25 °C Maximum storage life 2 years protection class IP IP67 in bonded state, suitable for washing facilities resistance to mechanical stress  vidth FS MM height - 0.3 mm depth - 25 mm	protocol / with radio transmission	EPCglobal Class 1 Gen 2 / ISO 18000-63
polarization Linear  product component / backup battery No  memory  type of memory EEPROM storage capacity / of the user memory 16 byte type of memory organization EPC 128 bit (16 byte), no user memory number of write cycles / at ambient temperature < 40 °C / maximum rawimum  data retention time / at ambient temperature < 40 °C / not less than property of memory lock, unlock, kill, write protection, password protection type of transponder chip used NXP Ucode 8  machanical data  material PET  color white mounting distance / relating to metal surfaces / recommended / minimum  ambient conditions  ambient temperature  during read/write access during storage during storage  during storage  substitute for operation Maximum storage life 2 years protection class IP protection class I	transfer rate / with radio transmission / maximum	320 kbit/s
product component / backup battery product component / backup battery product component / backup battery    Storage capacity / of the user memory	product feature / multitag-capable	Yes
product component / backup battery  type of memory  storage capacity / of the user memory  type of memory organization  number of write cycles / at ambient temperature < 40 °C / maximum  data retention time / at ambient temperature < 40 °C / not less than  property of memory  type of transponder chip used  material  color  mounting distance / relating to metal surfaces / recommended / minimum  ambient conditions  ambient temperature  d during read/write acces  d during read/write area  d during storage  ambient condition / for operation  protection class IP  resistance to mechanical stress  Torsion and bending stress conditionally permissible  design, dimensions and weights  width  75 mm  height  0.3 mm	polarization	Linear
type of memory  type of memory  storage capacity / of the user memory  type of memory organization  property of write cycles / at ambient temperature < 40 °C / maximum  adata retention time / at ambient temperature < 40 °C / ont less than  property of memory  type of transponder chip used  material  color  mounting distance / relating to metal surfaces / recommended / minimum  ambient conditions  ambient temperature  during read/write access  outside the read/write area  during storage  abulant condition / for operation  Maximum storage life 2 years  protection class IP  resistance to mechanical stress  design, dimensions and weights  width  75 mm  height  depth  EEPROM  SEPROM  SEPROM  16 byte  16 byte  1900  10000  10000  10000  10000  10000  10000  10000  10000  10000  10000  10000  10000  10000  10000  10000  100000  10000  10000  10000  10000  10000  10000  10000  10000  100000  100000  100000  100000  100000  100000  100000  100000  100000  100000  100000  100000  100000  100000  100000  100000  1000000	electrical data	
type of memory storage capacity / of the user memory type of memory organization number of write cycles / at ambient temperature < 40 °C / maximum  data retention time / at ambient temperature < 40 °C / not less than property of memory type of transponder chip used material color mounting distance / relating to metal surfaces / recommended / minimum  ambient conditions  ambient temperature during read/write access o outside the read/write area otuside the read/write area otuside the read/write area otuside storage ambient condition / for operation Maximum storage life 2 years protection class IP resistance to mechanical stress design, dimensions and weights  width 75 mm height depth  16 byte 10 a byte 10 douted 10 a bit (16 byte), no user memory 100000 10 user memory 100000 10 a bit (16 byte), no user memory 100000 10 a bit (16 byte), no user memory 100000 10 a bit (16 byte), no user memory 100000 10 a bit (16 byte), no user memory 100000 10 a bit (16 byte), no user memory 100000 10 a bit (16 byte), no user memory 100000 10 a bit (16 byte), no user memory 100000 10 a bit (16 byte), no user memory 100000 10 a bit (16 byte), no user memory 10 about (16 byte), no user memory 10 a bout (1	product component / backup battery	No
storage capacity / of the user memory  type of memory organization  EPC 128 bit (16 byte), no user memory  number of write cycles / at ambient temperature < 40 °C / maximum  data retention time / at ambient temperature < 40 °C / not less than  property of memory  type of transponder chip used  material  color  mounting distance / relating to metal surfaces / recommended / minimum  ambient conditions  ambient temperature  • during read/write access • outside the read/write area • during storage  ambient condition / for operation  protection class IP  identification  width  75 mm  height  depth  100000  10000  10000  10000  10000  10000  10000  10000  10000  1000000	memory	
type of memory organization  EPC 128 bit (16 byte), no user memory  number of write cycles / at ambient temperature < 40 °C / maximum  data retention time / at ambient temperature < 40 °C / not less than  property of memory  type of transponder chip used  material  material  color  mounting distance / relating to metal surfaces / recommended / minimum  ambient conditions  ambient temperature  oduring read/write access  outside the read/write area  during storage  abulant organization  Maximum storage life 2 years  protection class IP  IPG7 in bonded state, suitable for washing facilities  resistance to mechanical stress  design, dimensions and weights  width  75 mm  height  0.3 mm  100000  100000  100000  100000  100000  100000  100000  100000  100000  100000  100000  100000  1000000	type of memory	EEPROM
number of write cycles / at ambient temperature < 40 °C / maximum  data retention time / at ambient temperature < 40 °C / not less than  property of memory  lock, unlock, kill, write protection, password protection  type of transponder chip used  material  material  per T  color  white  ambient conditions  ambient conditions  ambient temperature  o during read/write access  o outside the read/write area  of during storage  ambient condition / for operation  protection class IP  resistance to mechanical stress  design, dimensions and weights  width  75 mm  height  depth  10 a	storage capacity / of the user memory	16 byte
maximum  data retention time / at ambient temperature < 40 °C / not less than  property of memory type of transponder chip used  material  material  color  mounting distance / relating to metal surfaces / recommended / minimum  minimum  ambient conditions  ambient temperature  o during read/write access o during storage of during storage  of during storage  mortion for operation  protection class IP  resistance to mechanical stress  width  75 mm  height depth  10 a  10	type of memory organization	EPC 128 bit (16 byte), no user memory
than property of memory lock, unlock, kill, write protection, password protection type of transponder chip used  material material PET color white  mounting distance / relating to metal surfaces / recommended / minimum ambient conditions  ambient temperature oldring read/write access outside the read/write area oldring storage fouring storage fouring to operation  Maximum storage life 2 years  protection class IP IP67 in bonded state, suitable for washing facilities resistance to mechanical stress  width resident reside		100000
type of transponder chip used  mechanical data  material PET  color white  mounting distance / relating to metal surfaces / recommended / minimum  ambient conditions  ambient temperature  • during read/write access • outside the read/write area • during storage  ambient condition / for operation  protection class IP  resistance to mechanical stress  width height height depth  PET  White  PET  White  PET  White  3 mm  Maximum  3 mm  Maximum  3 mm  Maximum storage life 2 years  Torsion and bending stress conditionally permissible  design, dimensions and weights  NXP Ucode 8  Maximum  ST 5 mm  0.3 mm  depth  O.3 mm	·	10 a
material PET color white mounting distance / relating to metal surfaces / recommended / minimum ambient conditions ambient temperature	property of memory	lock, unlock, kill, write protection, password protection
material PET  color white  mounting distance / relating to metal surfaces / recommended / minimum  ambient conditions  ambient temperature	type of transponder chip used	NXP Ucode 8
color white  mounting distance / relating to metal surfaces / recommended / minimum  ambient conditions  ambient temperature	mechanical data	
mounting distance / relating to metal surfaces / recommended / minimum  ambient conditions  ambient temperature  • during read/write access • outside the read/write area • during storage • during storage  ambient condition / for operation  Maximum storage life 2 years  protection class IP  IP67 in bonded state, suitable for washing facilities  resistance to mechanical stress  Torsion and bending stress conditionally permissible  design, dimensions and weights  width  75 mm  height  0.3 mm  depth  25 mm	material	PET
minimum  ambient conditions  ambient temperature  • during read/write access • outside the read/write area • during storage • during storage 5 25 °C  ambient condition / for operation protection class IP IP67 in bonded state, suitable for washing facilities resistance to mechanical stress Torsion and bending stress conditionally permissible  design, dimensions and weights  width 75 mm height 0.3 mm depth 25 mm	color	white
ambient temperature  • during read/write access  • outside the read/write area  • during storage  • during storage  5 25 °C  ambient condition / for operation  protection class IP  IP67 in bonded state, suitable for washing facilities  resistance to mechanical stress  design, dimensions and weights  width  75 mm  height  0.3 mm  depth  25 mm		3 mm
<ul> <li>during read/write access</li> <li>outside the read/write area</li> <li>-25 +85 °C</li> <li>during storage</li> <li>5 25 °C</li> <li>ambient condition / for operation</li> <li>protection class IP</li> <li>resistance to mechanical stress</li> <li>design, dimensions and weights</li> <li>width</li> <li>75 mm</li> <li>height</li> <li>0.3 mm</li> <li>depth</li> <li>25 +85 °C</li> <li>-25 +130 °C</li> <li>Maximum storage life 2 years</li> <li>IP67 in bonded state, suitable for washing facilities</li> <li>Torsion and bending stress conditionally permissible</li> <li>0.3 mm</li> <li>depth</li> <li>25 mm</li> </ul>	ambient conditions	
<ul> <li>outside the read/write area</li> <li>during storage</li> <li>25 +130 °C</li> <li>ambient condition / for operation</li> <li>Maximum storage life 2 years</li> <li>protection class IP</li> <li>IP67 in bonded state, suitable for washing facilities</li> <li>resistance to mechanical stress</li> <li>Torsion and bending stress conditionally permissible</li> <li>design, dimensions and weights</li> <li>width</li> <li>75 mm</li> <li>height</li> <li>0.3 mm</li> <li>depth</li> <li>25 mm</li> </ul>	ambient temperature	
<ul> <li>during storage</li> <li>ambient condition / for operation</li> <li>protection class IP</li> <li>IP67 in bonded state, suitable for washing facilities</li> <li>resistance to mechanical stress</li> <li>Torsion and bending stress conditionally permissible</li> <li>design, dimensions and weights</li> <li>width</li> <li>75 mm</li> <li>height</li> <li>0.3 mm</li> <li>depth</li> <li>25 mm</li> </ul>	<ul> <li>during read/write access</li> </ul>	-25 +85 °C
ambient condition / for operation  protection class IP  IP67 in bonded state, suitable for washing facilities  resistance to mechanical stress  design, dimensions and weights  width  75 mm  height  0.3 mm  depth  25 mm	<ul> <li>outside the read/write area</li> </ul>	-25 +130 °C
protection class IP IP67 in bonded state, suitable for washing facilities resistance to mechanical stress Torsion and bending stress conditionally permissible  design, dimensions and weights  width 75 mm height 0.3 mm depth 25 mm	during storage	5 25 °C
resistance to mechanical stress  design, dimensions and weights  width  75 mm  height  0.3 mm  depth  25 mm	ambient condition / for operation	Maximum storage life 2 years
width 75 mm height 0.3 mm depth 25 mm	protection class IP	IP67 in bonded state, suitable for washing facilities
width       75 mm         height       0.3 mm         depth       25 mm	resistance to mechanical stress	Torsion and bending stress conditionally permissible
height 0.3 mm depth 25 mm	design, dimensions and weights	
depth 25 mm	width	75 mm
	height	0.3 mm
net weight 0.2 g	depth	25 mm
	net weight	0.2 g

fastening method	one-side adhesible
pack type	Rolls with 1000 labels for applicator with 3" core
product features, product functions, product components	/ general
product feature	
printable	Yes
printing process	Thermal transfer process
standards, specifications, approvals	
certificate of suitability	
• IECEx	No
further information / internet links	
internet link	
<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	https://support.industry.siemens.com/cs/ww/en/view/67384964
<ul> <li>to website: Industrial communication</li> </ul>	http://www.siemens.com/ident/rfid
• to website: Industry Mall	https://mall.industry.siemens.com
<ul> <li>to website: Information and Download Center</li> </ul>	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx-Download-Manager	http://www.siemens.com/cax
<ul> <li>to website: Industry Online Support</li> </ul>	https://support.industry.siemens.com

5/28/2023

last modified: