

product type designation

**Transponder RF630L (special variant)**

SIMATIC RF630L (special variant) SmartLabel PET; 73x 12.5 mm; strongly adhesive on plastic ISO 18000-6C, EPC Class 1 Gen 2 frequency 860 to 960 MHz, Chip type NXP Ucode 7XM, memory 448 bit EPC, 2048 bit user, Core diameter 76 mm 2000 units on one roll 5 rolls in carton Minimum order quantity 10000 units .



suitability for operation

RF600

### radio frequencies

operating frequency	860 ... 930 MHz
range / maximum	5 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
------------------------------------	----

### 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	20 a
property of memory	lock, unlock, kill, write protection, password protection
type of transponder chip used	NXP UCODE 7xm-2K

### mechanical data

material	PET
color	white
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>	-20 ... +70 °C -40 ... +85 °C 5 ... 25 °C
ambient condition / for operation	Maximum storage life 2 years at 45% to 55% humidity, operating temperature permanent up to 85 °C, transient -40 °C to 120 °C for 90 minutes
protection class IP	IP67, when adhered
resistance to mechanical stress	Torsion and bending stress conditionally permissible

### design, dimensions and weights

width	12.5 mm
-------	---------

height	0.3 mm
depth	73 mm
net weight	0.2 g
fastening method	one-side adhesive
<b>product features, product functions, product components / general</b>	
product feature	
• printable	Yes
printing process	Thermal transfer process
<b>standards, specifications, approvals</b>	
certificate of suitability	
• IECEx	No
<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>

**last modified:**

2/10/2022 