

product type designation

Transponder RF630L

SIMATIC RF630L SmartLabel Inlay PET; 54x 34 mm; ISO 18000-6C, EPC Class 1 GEN 2 frequency 860 to 960 MHz, Chip Type NXP G2XM 240-bit EPC memory, 64 bytes Add-on memory 2000 units on one roll Minimum order quantity 2000 units .



suitability for operation

RF600

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
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memory

type of memory	EEPROM
storage capacity / of the user memory	64 byte
type of memory organization	EPC memory 96 bit (12 byte) expandable up to 240 bit (30 byte), user memory 512 bit (64 byte), TID memory 64 bit (8 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 G2XM

mechanical data

material	PET
color	transparent
mounting distance / relating to metal surfaces / recommended / minimum	3 mm

ambient conditions

ambient temperature	
• during read/write access	-40 ... +65 °C
• outside the read/write area	-40 ... +80 °C
• during storage	15 ... 25 °C
ambient condition / for operation	Maximum storage life 2 years at 40 to 60 % humidity, operating temperature permanent up to 65 °C, up to 80 °C for 200 cycles
protection class IP	IP65
resistance to mechanical stress	Torsion and bending stress conditionally permissible

design, dimensions and weights

width	34 mm
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height	0.3 mm		
depth	54 mm		
net weight	1 g		
fastening method	one-side adhesible onto plastic / foil		
product features, product functions, product components / general			
product feature			
• printable	Yes		
printing process	Thermal transfer process (currently only using Toshiba B-SX4T)		
standards, specifications, approvals			
certificate of suitability			
• IECEx	No		
standards, specifications, approvals / Environmental Product Declaration			
Environmental Product Declaration	Yes		
Global Warming Potential [CO2 eq]			
• total	0.0088 kg		
• during manufacturing	0.0086 kg		
• during operation	0.00017 kg		
• after end of life	5E-5 kg		
further information / internet links			
internet link			
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud		
• to website: Image database	https://www.automation.siemens.com/bilddb		
• to website: CAX-Download-Manager	https://www.siemens.com/cax		
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security information			
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