SIEMENS

Data sheet	6GT2810-2AB04

Product type designation	RF630L transponder
	SIMATIC RF630L SMARTLABEL INLAY PET 74X27 MM; ISO 18000-6C, EPC CLASS 1 GEN 2 FREQUENCY 860 MHZ UP TO 960 MHZ CHIP TYPE, NXP G2IM 256 BIT EPC MEMORY 64 BYTE ADD-ON MEMORY -40 UP TO +85 DGR/C; 2000 PCS PER EACH ROLL MINIMAL ORDER QUANTITY 2000 PCS

Wireless frequencies

Operating frequency	860 ... 960 MHz

Electrical data

Range / maximum	4 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 18000-6C
Transfer rate / with radio transmission / maximum	320 kbit/s
Product property / multitag-capable	Yes
Polarization	Linear
Product component / Backup battery	No

Memory

Type of memory	EEPROM
Storage capacity / of the user memory	64 byte
Type of memory organization	EPC memory 256 bits, user memory 64 bytes (512 Bit), TID memory 26 bytes - therefrom 14 bytes user TID
Number of read cycles / at ambient temperature < 40 °C / maximum	100000000000000
Number of write cycles / at ambient temperature < 40 °C / maximum	100000
Data retention time / at ambient temperature < 40 °C / not less than	20 y
Property of memory	lock, unlock, kill, write protection, password protection
Type of transponder chip used	NXP G2iM

Mechanical data

Material	PET
Color	white
Mounting distance / relating to metal surfaces / recommended / minimum	3 mm

Permitted ambient conditions

Ambient temperature	
• during read/write access	-25 ... +85 °C

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• outside the read/write area	-25 ... +160 °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 85 °C, up to 160 °C for 6 cycles with 30 min each
Resistance to mechanical stress	Torsion and bending stress conditionally permissible

Design, dimensions and weight

Width	27 mm
Height	0.3 mm
Depth	27 mm
Net weight	1 g
Mounting type	one-side adhesible onto plastic / foil

Product properties, functions, components / general

Product property	
• printable	Yes
Printing process	Thermal transfer process (currently only using Toshiba B-SX4T)

Further Information / Internet Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/automation/net/catalog
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

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