

Product type designation

RF630L transponder

SIMATIC RF630L SMARTLABEL INLAY PET 97X27 MM; ISO 18000-6C, EPC CLASS 1 GEN 2 FREQUENCY 860 MHZ UP TO 960 MHZ CHIP TYPE, IMPINJI MONZA 4QT 128 BIT EPC MEMORY 64 BYTE ADD-ON MEMORY -40 UP TO +65 DGR/C; 5000 PCS PER EACH ROLL MINIMAL ORDER QUANTITY 5000 PCS



| Wireless frequencies | |
|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating frequency | 860 ... 960 MHz |
| Electrical data | |
| Range / maximum | 8 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 96/128 bits, user memory 64 bytes (512 bits), TID memory 4 bytes |
| 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 | 10 y |
| Property of memory | lock, unlock, kill, write protection, password protection |
| Type of transponder chip used | IMPINJ MONZA 4QT |

| Mechanical data | |
|------------------------------------------------------------------------|-------------|
| Material | PET |
| Color | transparent |
| Mounting distance / relating to metal surfaces / recommended / minimum | 3 mm |

| Permitted ambient conditions | |
|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Ambient temperature | |
| <ul style="list-style-type: none"> during read/write access | -40 ... +65 °C |
| <ul style="list-style-type: none"> outside the read/write area | -40 ... +80 °C |
| <ul style="list-style-type: none"> 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 weight | |
|-------------------------------|----------------------------------------|
| Width | 27 mm |
| Height | 0.3 mm |
| Depth | 97 mm |
| Net weight | 1 g |
| Mounting type | one-side adhesible onto plastic / foil |

| Product properties, functions, components / general | |
|-------------------------------------------------------------|----------------------------------------------------------------|
| Product property | |
| <ul style="list-style-type: none"> printable | Yes |
| Printing process | Thermal transfer process (currently only using Toshiba B-SX4T) |

| Further Information / Internet Links | |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Internet-Link | |
| <ul style="list-style-type: none"> to website: Selector SIMATIC NET SELECTION TOOL | http://www.siemens.com/snst |
| <ul style="list-style-type: none"> to website: Industrial communication | http://www.siemens.com/simatic-net |
| <ul style="list-style-type: none"> to website: Industry Mall | https://mall.industry.siemens.com |
| <ul style="list-style-type: none"> to website: Information and Download Center | http://www.siemens.com/automation/net/catalog |
| <ul style="list-style-type: none"> to website: Image database | http://automation.siemens.com/bilddb |
| <ul style="list-style-type: none"> to website: CAx Download Manager | http://www.siemens.com/cax |
| <ul style="list-style-type: none"> to website: Industry Online Support | https://support.industry.siemens.com |
| last modified: | 09.03.2015 |