SIEMENS

## Data sheet 6GT2810-2DC00

**product type designation**




**RF640T transponder**

SIMATIC RF640T Tool Tag; 50x 8 mm (DxH); On-Metal Transponder ISO 18000-6C, EPC Class 1 GEN 2, frequency 865 to 868 MHz (ETSI), Chip type NXP G2XM, EPC 240 bit 64-byte add-on memory, minimum order quantity 10 units.

| | |
|---|---|
| suitability for operation | RF600 |
| **radio frequencies** | |
| operating frequency | 865 ... 868 MHz |
| 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 18000-63 |
| 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 | 64 byte |
| type of memory organization | EPC memory 96 bit (12 byte) assigned with sequential identifier and 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, write protection, password protection |
| type of transponder chip used | NXP G2XM |
| **mechanical data** | |
| material | PA12 |
| color | anthracite |
| tightening torque / of the screw for securing the equipment / maximum | 1.2 N·m |
| mounting distance / relating to metal surfaces / recommended / minimum | 0 mm |
| **ambient conditions** | |
| ambient temperature | |
| ● during read/write access | -25 ... +85 °C |
| ● outside the read/write area | -40 ... +125 °C |
| ● during storage | -40 ... +125 °C |
| protection class IP | IP68/IPx9K |
| shock resistance | According to DIN EN 60721-3-7 Class 7 M3 |
| shock acceleration | 1000 m/s² |
| vibrational acceleration | 200 m/s² |


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| | |
|---|---|
| **design, dimensions and weights** | |
| height | 8 mm |
| diameter | 50 mm |
| net weight | 13 g |
| fastening method | 2 x M4 screws |
| **product features, product functions, product components / general** | |
| product feature | |
| ● silicon-free | Yes |
| ● tamper-proof | No |
| ● printable | No |
| **standards, specifications, approvals** | |
| certificate of suitability | |
| ● IECEx | Yes |
| ● for IECEx / as marking | Ex: II 2 G Ex ib IIC T6 to T3, II 2 D Ex ibD 21 T140 °C, -25 °C < Ta°< +85 °C |
| MTBF | 1757 a |
| reference code | |
| ● according to IEC 81346-2:2019 | CFA |
| **further information / internet links** | |
| internet link | |
| ● to web page: selection aid TIA Selection Tool | https://www.siemens.com/tstcloud |
| ● to web page: identification and localization systems | https://www.siemens.com/ident |
| ● to web page: SiePortal | https://sieportal.siemens.com/ |
| ● to website: Image database | https://www.automation.siemens.com/bilddb |
| ● to website: CAx-Download-Manager | https://www.siemens.com/cax |
| ● to website: Industry Online Support | https://support.industry.siemens.com |
| **security information** | |
| security information | Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7) |

**Approvals / Certificates**

| General Product Approval | | | | EMV | For use in hazard-ous locations |
|---|---|---|---|---|---|
| CE EG-Konf. | CCC | EAC | UL | KC | ATEX |

**Environment**

Confirmation

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