

Product-type designation **RF640T transponder**



SIMATIC RF640T TOOL-TAG;
 50 X 8 MM (DXH);
 ON METAL TRANSPONDER ISO 18000-6C,
 EPC CLASS 1 GEN 2 FREQUENCY 865 UP TO 868 MHZ
 (ETSI) CHIP TYPE,
 NXP G2XM EPC 240 BIT 64 BYTE ADD-ON MEMORY -25
 UP TO +85 DGR/C;
 MINIMAL ORDER QUANTITY 10 PCS

Suitability for installation RF600

Wireless frequencies

Operating frequency 865 ... 868 MHz

Electrical data

Range
 • maximum 4 m

Protocol / for 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 / Buffer battery No

Memory

Type of memory EEPROM

Memory capacity / of user memory 64 byte

Type of memory organization EPC memory 96/240 bits, user memory 64 bytes (512 bits), TID memory 8 bytes

Number of read cycles / at ambient temperature < 40 °C / maximum 10000000000000

Number of write cycles / at ambient temperature < 40 °C / maximum 100000

Data retention time / at ambient temperature < 40°C / at least 10 a

Mechanical data

| | |
|---|--|
| Material | PA12 |
| Tightening torque / of screw for mounting the equipment / maximum | 1.2 N·m |
| Mounting distance / for metal surfaces / recommended / minimum | 0 mm |
| Permitted 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 |
| Resistance against shock | According to DIN EN 60721-3-7 Class 7 M3 |
| Resistance against shock | 1000 m/s ² |
| Resistance against vibration | 200 m/s ² |
| Design, dimensions and weight | |
| Height | 8 mm |
| Diameter | 50 mm |
| Net weight | 13 g |
| Product properties, functions, components / general | |
| Product feature / silicon-free | Yes |
| Product property / printable | No |
| Standards, specifications, approvals | |
| Verification of suitability | 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 |
| letzte Änderung: | Jul 21, 2014 |