

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
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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) 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	1000000000000000
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, 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	
<ul style="list-style-type: none"> • during read/write access • outside the read/write area • during storage 	<p>-25 ... +85 °C</p> <p>-40 ... +125 °C</p> <p>-40 ... +125 °C</p>
protection class IP	IP68/IPx9K
shock resistance	According to DIN EN 60721-3-7 Class 7 M3

shock acceleration	1000 m/s ²
vibrational acceleration	200 m/s ²
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
• 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 y
further information / internet-Links	
Internet-Link	
• to web page: selection aid TIA Selection Tool	https://support.industry.siemens.com/cs/ww/en/view/67384964
• to website: Industrial communication	http://www.siemens.com/ident/rfid
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• 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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