SIEMENS

Data sheet 6GT2810-2HG80

Product type designation RF680T transponder

SIMATIC RF680T HEAT RESISTANT TAG; 130X32X15 MM;ISO 18000-6C; EPC CLASS 1 GEN 2, FREQUENCY 860 UP TO 928 MHZ, CHIP TYPE NXP G2XM, EPC 240 BIT 64 BYTE ADD-ON MEMORY, MINIMAL ORDER QUANTITY 10 PCS



Wireless frequencies	
Operating frequency	865 928 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 feature / 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 96/240 bits, user memory 64 bytes (512 bits), TID memory 8 bytes
Number of read cycles / at ambient temperature < 40	10000000000000

°C / maximum

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	PPS
Color	black
Tightening torque / of the screw for securing the equipment / maximum	1 N·m
Mounting distance / relating to metal surfaces / recommended / minimum	0 mm
Permitted ambient conditions	
Ambient temperature	
 during read/write access 	-25 +100 °C
• outside the read/write area	-40 +220 °C
during storage	-40 +100 °C
Ambient condition / for operation	Operating temperature permanent up to 140 °C, for 5000 hours or 3000 cycles up to 200 °C, for 2000 hours or 1500 cycles up to 220 °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
Resistance to mechanical stress	Torsion and bending stress not permissible
Design, dimensions and weight	
Width	32 mm
Height	15 mm
Depth	130 mm
Net weight	50 g
Mounting type	2 x M6 screws
Product properties, functions, components / genera	al .
Product feature	
• silicon-free	Yes
• printable	No
Standards, specifications, approvals	
Certificate of suitability	II 2G Ex ib IIB T6 to T2 Gb, II 2D Ex ib IIIB T135 °C Db
MTBF	1940 y
Accessories	
Further Information / Internet Links	

Internet-Link

last modified:

• to website: Selector SIMATIC NET SELECTION TOOL

• to website: Industrial communication

• to website: Industry Mall

• to website: Information and Download Center

• to website: Image database

to website: CAx Download Managerto website: Industry Online Support

https://support.industry.siemens.com/cs/ww/en/view/67384964

http://www.siemens.com/ident/rfid

https://mall.industry.siemens.com

http://www.siemens.com/industry/infocenter

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

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