

Product type designation	RF690L transponder SIMATIC RF690L ETSI GEN2 ON METAL LABEL,HEAT-RESISTANT; ACCORDING TO ISO 18000 6C FREQUENCY 865 UPTO 868MHZ(ETSI) 96 UPTO 496 BIT EPC,ADDITIONAL 64/16 BYTE USER MEMORY; -25 UP TO +230 DGR/C; IP 67 88 X 25 X 1.6 MM (LXWXH); 400 PCS PER EACH ROLL
Wireless frequencies	
Operating frequency	865 ... 868 MHz
Electrical data	
Range / maximum	5 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 96/480 bits, user memory 64/16 bytes (512/128 bits), TID memory 12 bytes
Number of read cycles / at ambient temperature < 40 °C / maximum	10000000000000
Number of write cycles / at ambient temperature < 40 °C / maximum	500
Data retention time / at ambient temperature < 40 °C / not less than	50 y
Property of memory	lock, unlock, kill, write protection, password protection
Type of transponder chip used	Alien Higgs 3
Mechanical data	
Material	Top side: PET
Color	beige / silver
Mounting distance / relating to metal surfaces / recommended / minimum	0 mm
Permitted ambient conditions	
Ambient temperature	
<ul style="list-style-type: none"> during read/write access 	-25 ... +85 °C

<ul style="list-style-type: none"> • outside the read/write area • during storage 	-25 ... +230 °C 13 ... 23 °C
Ambient condition / for operation	Operating temperature permanent up to 95 °C, 3 cycles of 30 minutes each or one time 90 minutes up to 230 °C
Protection class IP	IP67
Resistance to mechanical stress	Torsion and bending stress conditionally permissible

Design, dimensions and weight	
Width	88 mm
Height	1.6 mm
Depth	25 mm
Net weight	5 g
Mounting type	one-side adhesible

Product properties, functions, components / general	
Product property	
<ul style="list-style-type: none"> • silicon-free • printable 	Yes Yes
Printing process	Thermal transfer process

Further Information / Internet Links	
Internet-Link	
<ul style="list-style-type: none"> • 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 Manager • to website: Industry Online Support 	http://www.siemens.com/snst http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/automation/net/catalog http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com

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