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Data sheet 6GT2500-5JK10

product type designation	**MDS U589 transponder**



- - spare part - - MOBY U mobile data memories MDS U589, heat-resistant, 32 KB RAM, IP68, -25 to max.+220 °C cyclically, D=114 mm, H=83 mm.

suitability for operation	MOBY U
product brand name	SIMATIC RF
radio frequencies	
operating frequency	2400 ... 2435 MHz
range / maximum	3 m; Range adjustable in reader in steps of 0.5 m
protocol / with radio transmission	ISO 18000-4
transfer rate / with radio transmission / maximum	384 kbit/s
product feature / multitag-capable	Yes
polarization	Circular
electrical data	
product component / backup battery	Yes
product feature / replaceable battery	No
battery life / typical	3 a
memory	
type of memory	RAM
storage capacity / of the user memory	32768 byte
type of memory organization	UID (fixed code) 4 bytes, OTP: 16 bytes, user memory 32768 bytes
number of read cycles / at ambient temperature < 40 °C / maximum	1E+14
number of write cycles / at ambient temperature < 40 °C / maximum	1E+14
data retention time / at ambient temperature < 40 °C / not less than	3 a
mechanical data	
material	PPS
color	brown
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	-25 ... +220 °C
● during storage	-40 ... +85 °C
ambient condition / for operation	Cyclic operation at ambient temperature >85 °C
protection class IP	IP68
shock resistance	According to DIN EN 60721-3-7 Class 7 M3
shock acceleration	500 m/s²
vibrational acceleration	50 m/s²
resistance to mechanical stress	Free fall 1 m

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design, dimensions and weights	
height	83 mm
diameter	114 mm
net weight	600 g
fastening method	mount (see accessories)
product features, product functions, product components / general	
product feature	
● silicon-free	Yes
standards, specifications, approvals	
certificate of suitability	RF: EN 300440-2, SAR: EN 50371, safety: EN 60950-1, EMC: EN 301489-01, EN 301489-03, ENV 50204, FCC Part 15C (USA), cULus, safe for heart pacemakers
certificate of suitability	
● IECEx	Yes
● for IECEx / as marking	Ex: II 3 G Ex nA T6
MTBF	285 a
accessories	
accessories	Skid holder, shrouding cover, universal holder
further information / internet links	
internet link	
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● 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

Approvals / Certificates

General Product Approval					EMV
EAC	CE EG-Konf.	China RoHS	Manufacturer Declaration	Miscellaneous	KC

Radio Equipment Type Approval Certificate

Miscellaneous

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