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Data sheet 6GT2500-3BF10

product type designation	**MDS U315 transponder**
	********** spare part ********* MOBY U mobile data memories MDS U315, 2 KB RAM, replaceable battery, IP65, -25 to +70 °C, 111x 67x 23.5 mm .



suitability for operation	MOBY U
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	Yes
battery life / typical	5 a
memory	
type of memory	RAM
storage capacity / of the user memory	2048 byte
type of memory organization	UID (fixed code) 4 bytes, OTP: 16 bytes, user memory 2048 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	5 a
mechanical data	
material	PA 12 GF 25
color	anthracite
tightening torque / of the screw for securing the equipment / maximum	0.8 N·m
mounting distance / relating to metal surfaces / recommended / minimum	0 mm
ambient conditions	
ambient temperature	
● during read/write access	-25 ... +70 °C
● outside the read/write area	-25 ... +70 °C
● during storage	-40 ... +85 °C
protection class IP	IP65
shock resistance	According to DIN EN 60721-3-7 Class 7 M3
shock acceleration	500 m/s²
vibrational acceleration	100 m/s²
resistance to mechanical stress	Free fall 1 m
design, dimensions and weights	

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width	67 mm
height	23.5 mm
depth	111 mm
net weight	100 g
fastening method	4 x M4 screws
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	No
MTBF	285 a
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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