SIEMENS

Data sheet 6GT2300-0CD00

product type designation	**MDS E623 transponder**
	MOBY E mobile data memory MDS E623 pill, 752 bytes EEPROM, for flush mounting in metal; IP67, -25 ... +85 °C, D=10x 4.5 mm according to DIN 69873.



suitability for operation	RF300, MOBY E
product brand name	SIMATIC RF
Technical Product Detail Page	https://i.siemens.com/1P6GT2300-0CD00
radio frequencies	
operating frequency / rated value	13.56 MHz
range / maximum	5 mm; Range depends on reader
protocol / with radio transmission	ISO 14443-A
transfer rate / with radio transmission / maximum	106 kbit/s
product feature / multitag-capable	No
electrical data	
product component / backup battery	No
memory	
type of memory	EEPROM
storage capacity / of the user memory	752 byte
type of memory organization	UID (permanently coded) 4 bytes, user memory 752 bytes,
number of read cycles / at ambient temperature < 40 °C / maximum	1E+14
number of write cycles / at ambient temperature < 40 °C / maximum	100000
data retention time / at ambient temperature < 40 °C / not less than	10 a
mechanical data	
material	Epoxy resin
color	black
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	-40 ... +100 °C
● during storage	-40 ... +100 °C
protection class IP	IP67/IPx9K
shock acceleration	1000 m/s²
vibrational acceleration	200 m/s²
design, dimensions and weights	
height	4.5 mm
diameter	10 mm
net weight	4 g
fastening method	gluing

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product features, product functions, product components / general	
product feature	
● silicon-free	Yes
● printable	No
standards, specifications, approvals	
certificate of suitability	
● IECEx	No
MTBF	285 a
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
● total	0.93 kg
● during manufacturing	0.88 kg
● during operation	0.00041 kg
● after end of life	0.05 kg
further information / internet links	
internet link	
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to web page: identification and localization systems	https://www.siemens.com/ident
● to web page: SiePortal	https://sieportal.siemens.com/
● 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
security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Approvals / Certificates

General Product Approval

UKCA	CE EG-Konf.	EAC	China RoHS	Manufacturer Declaration	Miscellaneous

General Product Approval	EMV	Environment
Manufacturer Declaration	KC	EPD

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