

### 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

### 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
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### 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	100000000000000
Number of write cycles / at ambient temperature < 40 °C / maximum	1000000

Data retention time / at ambient temperature < 40 °C / not less than	10 y
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### Mechanical data

Material	Epoxy resin
Color	black
Mounting distance / relating to metal surfaces / recommended / minimum	0 mm

### Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> <li>during read/write access</li> </ul>	-25 ... +85 °C
<ul style="list-style-type: none"> <li>outside the read/write area</li> </ul>	-40 ... +100 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-40 ... +100 °C
Protection class IP	IP67/IPx9K
Shock acceleration	1000 m/s <sup>2</sup>
Vibrational acceleration	200 m/s <sup>2</sup>

### Design, dimensions and weights

Height	4.5 mm
Diameter	10 mm
Net weight	4 g
Mounting type	Bonding

### Product features, product functions, product components / general

Product feature	
<ul style="list-style-type: none"> <li>silicon-free</li> </ul>	Yes
<ul style="list-style-type: none"> <li>printable</li> </ul>	No

### Standards, specifications, approvals

Certificate of suitability	
<ul style="list-style-type: none"> <li>IECEX</li> </ul>	No
MTBF	285 y

### Further information / Internet-Links

Internet-Link	
<ul style="list-style-type: none"> <li>to website: Selector SIMATIC NET SELECTION TOOL</li> </ul>	<a href="https://support.industry.siemens.com/cs/ww/en/view/67384964">https://support.industry.siemens.com/cs/ww/en/view/67384964</a>
<ul style="list-style-type: none"> <li>to website: Industrial communication</li> </ul>	<a href="http://www.siemens.com/ident/rfid">http://www.siemens.com/ident/rfid</a>
<ul style="list-style-type: none"> <li>to website: Industry Mall</li> </ul>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
<ul style="list-style-type: none"> <li>to website: Information and Download Center</li> </ul>	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
<ul style="list-style-type: none"> <li>to website: Image database</li> </ul>	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
<ul style="list-style-type: none"> <li>to website: CAx Download Manager</li> </ul>	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
<ul style="list-style-type: none"> <li>to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

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