

### product type designation

### MDS D117 transponder

Transponder MDS D117 for RF200/RF300 ISO On-Metal Transponder, adhesive ISO 15693, Chip type NXP ICODE SLI, 112 byte user memory; 4x 5 mm (DxH); Minimum order quantity 10 units.



### suitability for operation

RF200, RF300

### radio frequencies

operating frequency / rated value	13.56 MHz
range / maximum	4 mm; range is reader dependent: observe <a href="http://support.automation.siemens.com/WW/view/en/67384964">http://support.automation.siemens.com/WW/view/en/67384964</a>
protocol / with radio transmission	ISO 15693
transfer rate / with radio transmission / maximum	26.5 kbit/s
product feature / multitag-capable	Yes

### electrical data

product component / backup battery	No
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### memory

type of memory	EEPROM
storage capacity / of the user memory	112 byte
type of memory organization	UID (fixed code) 8 bytes, user memory 112 bytes, configuration memory 8 bytes
number of read cycles / at ambient temperature < 40 °C / maximum	1E+14
number of write cycles / at ambient temperature < 40 °C / maximum	1000000
data retention time / at ambient temperature < 40 °C / not less than	10 a
property of memory	Block-by-block write protection of the user memory
type of transponder chip used	NXP I-Code SLI

### mechanical data

material	PPS
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> <li>outside the read/write area</li> <li>during storage</li> </ul>	<p>-25 ... +85 °C</p> <p>-40 ... +125 °C</p> <p>-40 ... +125 °C</p>
protection class IP	IP68/IPx9K
shock resistance	According to DIN EN 60721-3-7 Class 7 M3
shock acceleration	1000 m/s <sup>2</sup>
vibrational acceleration	200 m/s <sup>2</sup>

### design, dimensions and weights

height	5.2 mm
diameter	4 mm
net weight	1 g

fastening method	gluing
<b>product features, product functions, product components / general</b>	
product feature	
• printable	No
<b>standards, specifications, approvals</b>	
certificate of suitability	
• IECEX	No
MTBF	228 a
<b>further information / internet links</b>	
internet link	
• to web page: selection aid TIA Selection Tool	<a href="https://support.industry.siemens.com/cs/ww/en/view/67384964">https://support.industry.siemens.com/cs/ww/en/view/67384964</a>
• to website: Industrial communication	<a href="http://www.siemens.com/ident/rfid">http://www.siemens.com/ident/rfid</a>
• to website: Industry Mall	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
• to website: Information and Download Center	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
• to website: Image database	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
• to website: CAx-Download-Manager	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

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