

product type designation

Transponder MDS D165

HF label MDS D165 for RF200/RF300 ISO/MOBY D, PET label, adhesive, ISO 15693, Chip type NXP ICODE SLI, 112 byte user memory; 86x 54x 0.3 mm (LxWxH); Minimum order quantity 1000 units .



suitability for operation

RF200, RF300, MOBY D

radio frequencies

operating frequency / rated value	13.56 MHz
range / maximum	500 mm; range is reader dependent: observe http://support.automation.siemens.com/WW/view/en/67384964
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	Top side + inlay: PET, antenna aluminum
color	white
mounting distance / relating to metal surfaces / recommended / minimum	25 mm

ambient conditions

ambient temperature	
<ul style="list-style-type: none"> ● during read/write access ● outside the read/write area ● during storage 	<p>-25 ... +85 °C</p> <p>-25 ... +85 °C</p> <p>20 ... 30 °C</p>
protection class IP	IP65
resistance to mechanical stress	Maximum storage period: 2 years (determined by durability of the adhesive)

design, dimensions and weights

width	54 mm
height	0.3 mm
depth	86 mm
net weight	1 g
fastening method	one-side adhesive

product features, product functions, product components / general	
product feature	
• printable	Yes
printing process	Thermal transfer process
standards, specifications, approvals	
certificate of suitability	
• IECEX	No
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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