

product type designation

MDS D421 transponder

Transponder MDS D421 for RF200/RF300 ISO tool pill in metal, ISO 15693, Chip type FUJITSU MB89R118, 2000 byte FRAM user memory 10x 4.5 mm (DxH); Minimum order quantity 10 units



suitability for operation

RF200, RF300

radio frequencies	
operating frequency / rated value	13.56 MHz
range / maximum	8 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
memory	
type of memory	FRAM
storage capacity / of the user memory	2000 byte
type of memory organization	UID (fixed code) 8 bytes, user memory 2000 bytes, configuration memory 40 bytes
number of read cycles / at ambient temperature < 40 °C / maximum	1000000000000

number of write cycles / at ambient temperature < 40 °C / maximum	1000000000000
data retention time / at ambient temperature < 40 °C / not less than	10 y
property of memory	Block-by-block write protection of the user memory
type of transponder chip used	Fujitsu MB89R118

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"> during read/write access 	-25 ... +85 °C
<ul style="list-style-type: none"> outside the read/write area 	-40 ... +100 °C
<ul style="list-style-type: none"> during storage 	-40 ... +100 °C
protection class IP	IP67 / IPx9K
shock resistance	According to DIN EN 60721-3-7 Class 7 M3
shock acceleration	1000 m/s ²
vibrational acceleration	200 m/s ²

design, dimensions and weights

height	4.5 mm
diameter	10 mm
net weight	1 g
mounting type	gluing

product features, product functions, product components / general

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

standards, specifications, approvals

certificate of suitability	
<ul style="list-style-type: none"> IECEX 	No

further information / internet-Links

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

- to website: Industry Online Support

<https://support.industry.siemens.com>

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