

product type designation



MDS D521 transponder

Transponder MDS D521 only for RF200/RF300 Gen2 Tool pill in metal, ISO 15693, chip type FUJITSU MB89R112, 8192-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	5 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	FRAM
storage capacity / of the user memory	8192 byte
type of memory organization	UID (fixed code) 8 bytes, user memory 8192 bytes, configuration memory 40 bytes
number of read cycles / at ambient temperature < 40 °C / maximum	1E+12
number of write cycles / at ambient temperature < 40 °C / maximum	1E+12
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	Fujitsu MB89R112

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 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

fastening method	gluing
product features, product functions, product components / general	
product feature	
• silicon-free	Yes
• printable	No
standards, specifications, approvals	
certificate of suitability	
• IECEx	No
reference code	
• according to IEC 81346-2:2019	CFA
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	
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