

Product-type designation	
	MDS U315 transponder
	MOBY U MOBILE DATA MEMORY MDS U315, 2 KBYTE RAM, REPLACEABLE BATTERY, IP 65, -25 TO +70 DGR/C, 111 X 67 X 23.5 MM
	
Suitability for installation	MOBY U
Wireless frequencies	
Operating frequency	2400 ... 2435 MHz
Electrical data	
Range	
• maximum	3 m
• note	Range adjustable in reader in steps of 0.5 m
Protocol / for radio transmission	ISO 18000-4
Transfer rate / with radio transmission / maximum	384 kbit/s
Product property / multitag-capable	Yes
Polarization	Circular
Product component / Buffer battery	Yes
Product property / replaceable battery	Yes
Service life of battery / typical	5 a
Memory	
Type of memory	RAM
Memory capacity / of user memory	2048 byte
Type of memory organization	UID (fixed code) 4 bytes, OTP: 16 bytes, user memory 2048 bytes
Number of read cycles / at ambient temperature < 40 °C / maximum	1000000000000000
Number of write cycles / at ambient temperature < 40 °C / maximum	1000000000000000

Data retention time / at ambient temperature < 40°C / at least	5 a
Mechanical data	
Material	PA 12 GF 25
Tightening torque / of screw for mounting the equipment / maximum	0.8 N·m
Mounting distance / for metal surfaces / recommended / minimum	0 mm
Permitted ambient conditions	
Ambient temperature	
• during read/write access	-25 ... +70 °C
• outside the read/write area	-25 ... +70 °C
• during storage	-40 +85 °C
Protection class IP	IP65
Resistance against shock	According to DIN EN 60721-3-7 Class 7 M3
Resistance against shock	500 m/s²
Resistance against vibration	100 m/s²
Mechanical stress resistance	Free fall 1 m
Design, dimensions and weight	
Width	67 mm
Height	23.5 mm
Depth	111 mm
Net weight	100 g
Product properties, functions, components / general	
Product feature / silicon-free	Yes
Standards, specifications, approvals	
Verification of suitability	RF: EN 300440-2, SAR: EN 50371, safety: EN 60950-1, EMC: EN 301489-01, EN 301489-03, ENV 50204, FCC Part 15C (USA), cULus, safe for heart pacemakers
MTBF	285 a
letzte Änderung:	Jul 21, 2014