

Flextan UHF

The Flextan tag can be used in industry and in laundries for clothing and textile flow management.

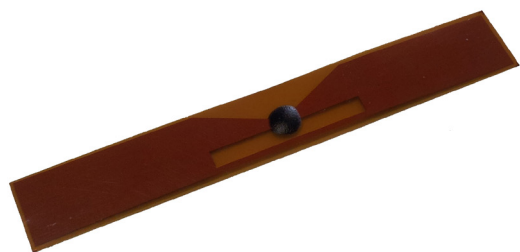
This tag is waterproof, high-temperature resistant and can withstand chemical aggressions.

Key features

- Global tag (860-960 MHz)
- High-temperature and chemical aggressions resistant

Applications

Laundry, textile, electronics, high-temperature applications...



Functional specifications

Type	UHF
Frequency	Global: 860-960 MHz
Air interface protocol	EPC Class1 Gen2, ISO18000-6C
IC Type	Ucode 8
Memory	EPC 128bits, TID 96bits
Data retention	20 years
Write Cycles:	100,000 times
Functionalities	Read/write

Physical specifications

Dimensions	80 x 9 x 0,4mm
Tag Material	Flexible PCB
Applicable surface	Off metal

Environmental and industry compliance

Protection grade	IP68
Storage Temperature	-45°C to +220°C
Operating Temperature	-45°C to +85°C

Durability

Temperature stress

Test methods	Descriptions	Pass/fail
Peak temperature	Stored in convection oven at 220°C	Pass
-45<>85°C, 50 cycles	Stored in temperature shock chamber for 50 cycles, one cycle includes 30 min at -45C, 30 min, transition, 30min at 85C and 30min transition	Pass
85°C/85%, 24hrs	Stored in humidity chamber at 85C/85%RH for 24hours	Pass
Boiling water, 6 hrs	Immersed in boiling water for 6hours	Pass

Ingression

IP grade	IP68	1.5meter deep immersion, 1hour
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Mechanical stress

Test methods	Descriptions	Pass/fail
Vibration	IEC60068-2-6/64	Pass
Drop & topple	IEC60068-2-31	Pass
Shock (acceleration)	IEC60068-2-22	Pass

Chemical stress

Test methods	Descriptions	Pass/fail
Alkali	NaOH (10%, pH13) Immersed 24hours	Pass
Acid	Sulfuric acid (10%, pH2) Immersed 24hours	Pass
Petroleum	Gasoline, Diesel, Kerosene, lubricating oil Immersed 24hours	Pass
Alcohol	Methanol, Ethanol Immersed 24hours	Pass
Surfactant	Solvent for metal tool oils Immersed 24hours	Pass
Salt water	IEC60068-2-11	Pass

Electrical stress

ESD	IEC61000-4-2 (LEVEL4 – 8KV)	Pass
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V2.1

Non-contractual document