

Reference Only

UHF Weldable Metallic Tag [IM5-X07] Evaluation Data

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 Material Polymer Science Sector
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1.Products

UHF Weldable Metallic Tag [IM5-X07]

2.Evaluation Method

Evaluate Figure and Communication after Tests in Table.1

Criteria(Figure) : No Crack, Deformation, Non-conformance for Communication, by Visual Check

Criteria(Communication) : Can Read Correct ID Following Reader

Reader : Handy Reader AT-870

Read Range : 50cm(on Metal Plate(SUS304, 300mm×400mm×0.5mmt))

3.Evaluation Results

Table1. Evaluation Results

No.	Category	Item	Condition	Quantity	Results
1	Durability	High Temp. Storage	100°C	10	1000 Hour OK
2			200°C	-	Scheduled
3		Low Temp. Storage	-40°C	10	1000 Hour OK
4		High Temp. & High Humidity	85°C/85%RH	20	1000 Hour OK
5		Temp Cycle	-40°C~100°C	20	1000 Cycle OK
6			-55°C~125°C	-	Scheduled
7		Heat Resistance	260°C	-	Scheduled
8	Anti Chemical	Saline Solution (5%)		5	24 Hour OK
9		Sodium Carbonate Solution (5%)		5	24 Hour OK
10		Ethyl Alcohol Solution (60%)		5	24 Hour OK
11		Sugar Water (10%)		5	24 Hour OK
12		Ethylene Glycol Solution (50%)		5	24 Hour OK
13		Acetic Acid Solution (5%)		5	24 Hour OK
14		MEK		5	24 Hour OK
15		Toluene		5	24 Hour OK
16		Gasoline		5	24 Hour OK
17	Mechanical Strength	Load(Horizontal)		5	Scheduled
18	Electrostatic Discharge(ESD)	Both Sides (Front and Back)		5	±30 KV OK

<Note>

Above data are sampling value, and are not 100% tested.