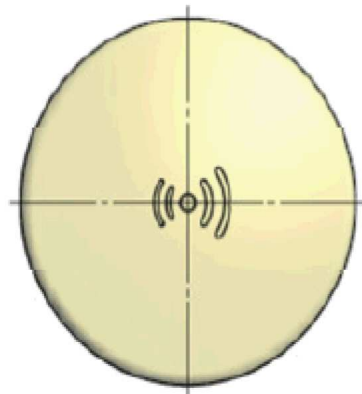
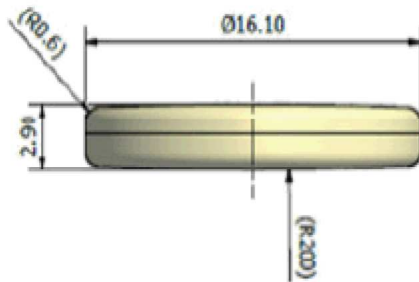


LaundryTag Singulated
 ISO 15 693, ISO 18 000-3
 EM 4033
 Sales code 3002637

Mechanical dimensions

Diameter	16,1 mm	$\pm 0,2$ mm	0,634 in
Thickness	2,9 mm	$\pm 0,2$ mm	0,114 in
Edge radius	R0,6 mm	+/- 0,2	0,024 in



Electrical characteristics

Integrated Circuit (IC)	EM 4033
Module Types	DFN
Air interface protocol	ISO 15 693, ISO 18 000-3
Operation frequency	13,56 MHz
Memory	64 bit Unique serial number

General characteristics of transponder

Operating temperature (electronics parts)	-30 °C / +85 °C	-22 °F / 185 °F
Housing material and color	PPS, natural beige	

Qualification tests

Type of test	Condition
Hot temp test	150°C, 1hr.
Hot temp test	200°C, 30 min.
Cold temp test	-30°C, 168 hr
Humidity resistance	85°C/85%RH, 500hr.
Pressure cooker test	121°C/2bar, 96 hr.
Radial compression test	1200 N
Axial compression test	2600N
Patch condition	220°C, 3.5 Bar, 60 sec.
Thermal cycling	-40°C to +85°C TT: up10min, down 5min, Soak 10min, 200 cycles
Tunnel finisher	140°C, 12min & Room temp 12min., 200 cycles
Thermal cycling	25°C to +140°C TT: up5min, down 5min, Soak 5min, 300 cycles
Transport test	-40°C 168h , (test in between) +85°C; 65%RH, 168h

Final inspection

100 % performance test		
Laser Engraving	WWY HF - 123456789	WW – Work Week Y – Year of Manufacturing HF – RFID type 123456789 – UID *Laser engraving can be on either side of tag

Delivery format

	Quantity	Dimension
Bag quantity	1000 pcs	
Box quantity	10000 pcs	
Min. delivery quantity	10000 pcs	

Disclaimer:

SMARTRAC reserves the right to change its products and services at any time without notice. Our recommendations are based on our best knowledge and experience. As the products are used outside our control we cannot take responsibility for any damage that may be caused when using the product. Use extra care in handling the product.

This technical specification replaces all earlier ones.

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