

Product Specification

v1.0

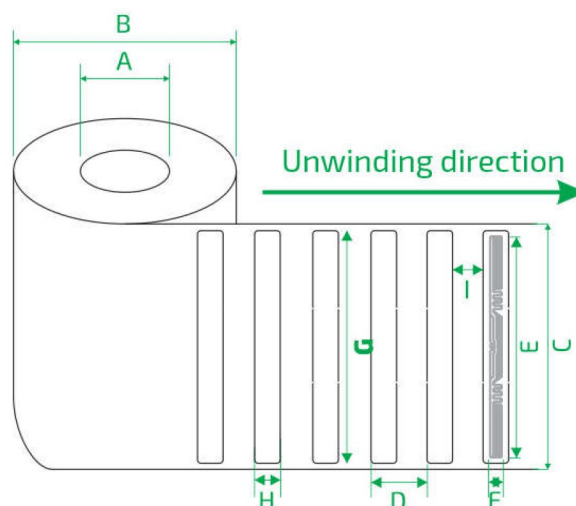
SKU: AN8101N101

Operating frequency	860-960 MHz
Air interface protocol	RAIN RFID / ISO 18000-63 and EPCglobal Gen2v2

IC - Integrated Circuit

Model	Impinj Monza R6-P
TID	96 bits of Serialized TID with 48-bit serial number
EPC	96 / 128 bits
User	64 / 32 bits
Reserved	32 bits Access Password, 32 bits Kill Password
Data Retention	50 years
Programming Cycles	100,000 cycle endurance
Read Sensitivity	- 22.1 dBm
Write Sensitivity	- 17.3 dBm

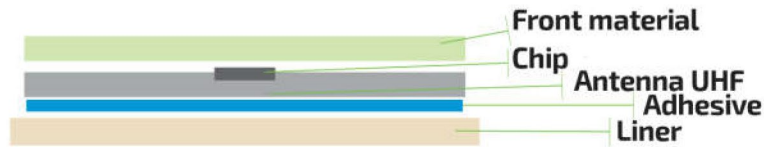
Mechanical Specification



Dimension	Item	Metric [mm]	Tolerance [mm]	US [in]
A	Core inner diameter	76.2	2	3
B	Roll max outer diameter ($\leq$)	203.2	5	8
C	Web width	115	1	4.53
D	Pitch length per piece (MD)	26.31	0.5	1.04
E	Antenna width	105	0.2	4.13
F	Antenna height	6	0.5	0.24
G	Die-cut width	109	0.5	4.29
H	Die-cut height	10	0.5	0.39
I	GAP	16.31	1	0.64
	Register Mark	NA*	--	--

* Not applicable.

Product Structure



Front material	White woodfree paper, 101 μm
Back Material	Liner, 60 g/m^2
Antenna material	Aluminum 10 μm on a PET 50 μm substrate
Adhesive	Functional Permanent PSA Acrilyc (ADC1200)
Min. labelling temperature	0 $^{\circ}\text{C}$
Service temperature	-40 to 90 $^{\circ}\text{C}$ (maximum related to the top high temperature of the adhesive)
Peel min.	3 N / 25 mm (FTM 2)
Total Thickness	213 μm ($\pm$ 13 μm)

Characteristics

Max. consecutive faulty tags	3
IC operating temperature	-40 $^{\circ}\text{C}$ to 85 $^{\circ}\text{C}$, 50 % RH
Shelf life	1 year (from manufacturing date)
Storage	23 $^{\circ}\text{C} \pm 3$ $^{\circ}\text{C}$ / 50% RH $\pm$ 5%
Yield	> 99%
ESD voltage immunity	2 kV peak HBM (Human Body Model)
Bending diameter	> 50 mm, tension less than 10 N

Packaging

Qty per Roll	5,000 (standard roll for 8")
Roll Net Weight	3 kg - 6.61 lbs
Box	230 x 230 x 120 mm (1 roll per box)
Master Box	NA*

* Not applicable.