

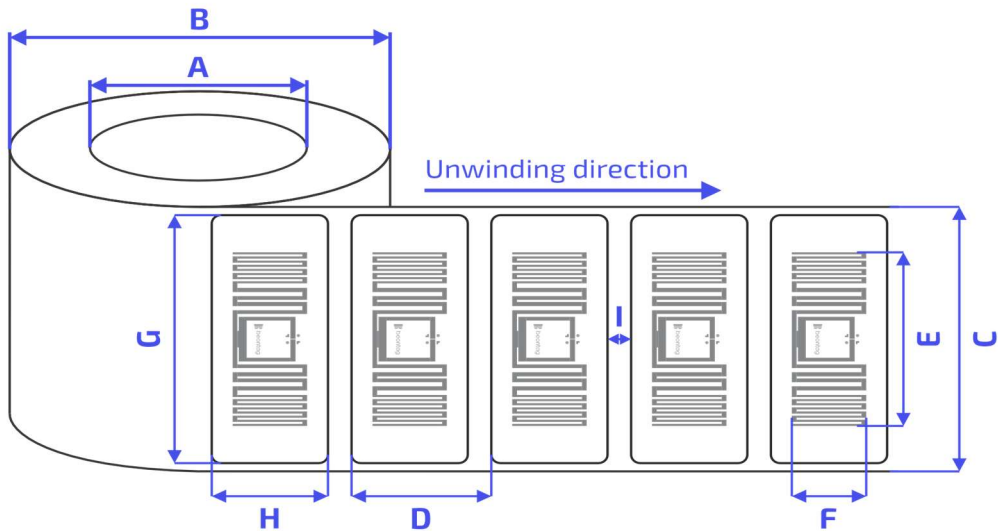
Product Specification

IC - Integrated Circuit

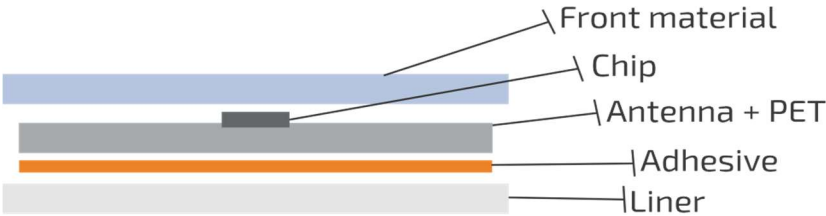
SKU	AN862N107	TBD
Model	Impinj M830	Impinj M850
TID	96 bits (48 bits serialized)	96 bits (48 bits serialized)
EPC	128 bits	96 bits
User	None	32 bits
Reserved	32 bits Access, 32 bits Kill	32 bits Access, 32 bits Kill
Data Retention	10 years	10 years
Programming Cycles	10,000 cycle endurance	10,000 cycle endurance

Read Sensitivity	-25.5 dBm
Write Sensitivity	-20 dBm
Operating frequency	860 MHz to 960 MHz
Air interface protocol	RAIN RFID / ISO 18000-63 and EPCglobal Gen2v2 and Impinj Gen2X

Mechanical Specification



Dimension	Item	Metric [mm]	Tolerance [mm]	US [in]
A	Core inner diameter	76,2	3,0	3,00
B	Roll max outer diameter (\leq)	203,2	5,0	8,00
C	Web width	64	1,5	2,52
D	Pitch length per piece (MD)	30,04	2,0	1,18
E	Antenna width	42	0,2	1,65
F	Antenna height	16	0,5	0,63
G	Die-cut width	60	1,0	2,36
H	Die-cut height	25	2,0	0,98
I	GAP	5,04	2,0	0,20
	Border radius	2	NA	0,08



Front material	White BOPP
Back Material	Liner, 60 g/m²
Adhesive	Functional Permanent PSA Acrilyc
Min. labelling temperature	0 °C
Antenna material	Aluminum 10 µm on a PET 50µm substrate
Service temperature	-40°C to 90°C (maximum related to the top high temperature of the adhesive)
Peel min.	3 N / 25 mm (FTM 2)
Total Thickness	215 µm (± 15 µm)
Application Method	Manual

Characteristics

Max. consecutive faulty tags	3
IC operating temperature	-40 °C to 85°C, 50 % RH
Shelf life	1 year (from invoice date)
Storage	23 °C ±3 °C / 50% RH ± 5%
ESD voltage immunity	2 kV peak HBM (Human Body Model)
Bending diameter	> 50 mm, tension less than 10 N

Packaging

Qty per Roll	4.000
Box	240 X 240 X 390 mm
Master Box	NA