Technology Solutions for Retail

Sewn, graphene-printed RFID label BLG7034

99%
Eco-friendly

50%
Softer

100%
PET-Free



As the world's first woven, graphene-printed RFID label, the BLG7034 sets a new standard for apparel RFID labeling. It is softer, lighter and more sustainable, allowing customization with the brand logo and integration of a multi-technology QR code for traceability and anti-counterfeiting, while keeping accurate item-level identification.

Physical Specifications

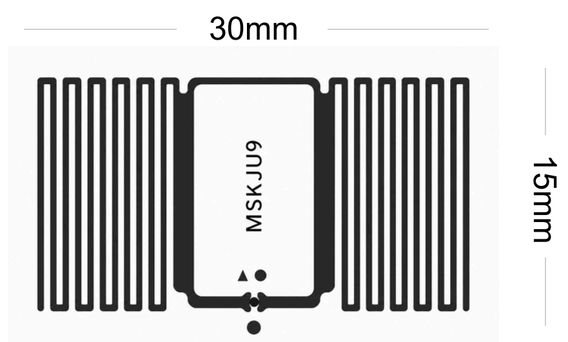
Chip	Impinj M830 / NXP Ucode 9
Antenna Dimensions (mm)	30 x 15 / 43 x 28
Label Dimensions (mm)	70 x 34 (customizable)
Frequency	860-960 MHz
Material	Nylon / Satin

Electrical Specifications

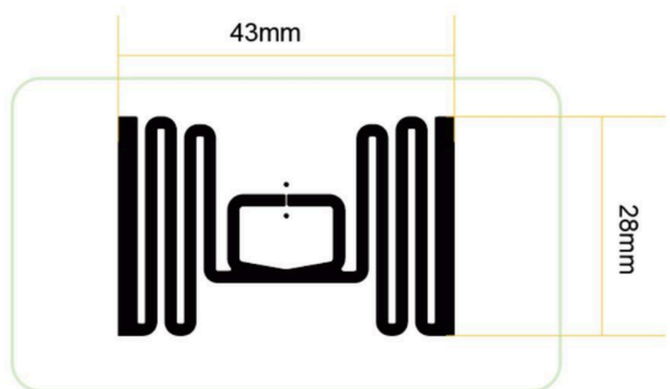
Protocol	ISO/IEC 18000-6C & EPCglobal Class 1 Gen 2
Operating Frequency	860-960 MHz
Integrated Circuit [IC]	NXP U9
EPC Memory	96 bits
User Memory	0 bits
Unique TID	96 bits
Kill Password	32 bits
Access Password	Null
Read Range	2 ~ 3 m / 4 ~ 5 m
Expected Read Cycles	100,000 cycles
Data Retention	20 years

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BLG7034 Graphene Label



Read range: 2~3m



Read range: 4~5m

Environmental Requirements

Operating Temperature	5 ~ 60 °C
Storage Temperature	20 ~ 30 °C
ESD	2 KV (from manufacture)
Shelf Life	1 year in anti-static bag at 20~30 °C / 20%~60% RH

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