

RFID Smart Label Specification

Supported Standard	ISO 15693 (I-code1/I-code-SLI), ISO 14443 (Mifare I)
Recommended Operating frequency	13.56 MHz
Passive Resonance Frequency (at +25°C)	13.56 MHz ± 200kHz (includes frequency offset to compensate further integration into paper)
Typical programming cycles(at +25°C)	100,000
Data retention time (at +55°C)	>10 years
Thickness	Chip: 0.355mm(~0.014 in) Antenna: 6µm
Base material	Substrate: paper or synthetic Antenna: silver
Smallest bending radius allowed	18mm (~0.71 in)
Operating temperature	-25°C to +70°C
Storage temperature (on reel)	-40°C to +40°C
Delivery	Single row tape wound on carboard reel with 750mm diameter Reel outer width: approx.80mm (~3.15 in)

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Antenna coil	Label Size	Delivery	Width	Material	IC
Size		Format			
38mm x 38mm	45mm x 45mm	Reel	55mm	Paper,Synthetic	Philips I code 2
38mm x 38mm	45mm x 45mm	Reel	55mm	Paper,Synthetic	Philips Ultralight
38mm x 38mm	45mm x 45mm	Reel	55mm	Paper,Synthetic	Mifare I
43mm x 23mm	47mm x 27mm	Reel	37mm	Paper,Synthetic	Philips I code 2
43mm x 23mm	47mm x 27mm	Reel	37mm	Paper,Synthetic	Philips Ultralight
43mm x 23mm	47mm x 27mm	Reel	37mm	Paper,Synthetic	Mifare I
47mm x 78mm	54mm x 86mm	Reel	64mm	Paper,Synthetic	Philips I code 2
47mm x 78mm	54mm x 86mm	Reel	64mm	Paper,Synthetic	Philips Ultralight
47mm x 78mm	54mm x 86mm	Reel	64mm	Paper,Synthetic	Mifare I
30mm x 60mm	40mm x 70mm	Reel	80mm	Paper,Synthetic	Inside(2k)
Diameter50mm	Diameter60mm	Reel	70mm	Paper,Synthetic	Philips I code 2
Diameter50mm	Diameter60mm	Reel	70mm	Paper,Synthetic	Philips Ultralight
Diameter50mm	Diameter60mm	Reel	70mm	Paper,Synthetic	Mifare I

Special coil size and IC-types are available upon request