

rfidTAG

RADIO FREQUENCY IDENTIFICATION



The first step to converting your library collection to RFID is choosing tags that deliver fast, reliable performance. Your tags are the key to faster transactions, better shelf management, and improved item security using RFID capabilities.

Tech Logic has worked with hundreds of libraries to complete RFID conversions. Our rfidTAG designs exceed industry standards with high quality materials available in formats for all types of library materials. Guaranteed for the entire life-cycle of the item it is affixed to, rfidTAG has set the benchmark for RFID tag quality and performance in the library industry.



LIBRARY STANDARD

13.56 MHz frequency labels are fully aligned with ISO/IEC 15693, 18000-3, and 28560 – the standard for RFID tags used by all types of libraries.



MULTIPLE FORMATS

rfidTAG Solutions are available for printed materials, AV cases and individual discs, illustrated materials, tablets, and more.



CUSTOMIZED TAGS

rfidTAGs can be customized with library logos for ownership marking, barcode “buddy labels”, pre-encoding of data on tags, and more.



rfidTAG Product Features

Base Material	White semi-gloss paper (thermal transfer printable) or clear PET Aluminum-etched antenna Specialized substrate for various applications Optional ISO 9706 paper, high gloss paper, clear PET, PP, or specialized label materials for specific applications
Adhesive and Liner	Acrylic adhesive on release paper liner
Chip Memory	NXP ICODE SLIX2 SLS2602 w/ 2560 bits memory/2528 bits user memory NXP ICODE SLIX SL2S2002 w/ 1024 bits memory/896 bits user memory.
Delivery Form	Book Tags (Booklite and Racetrack): Label face-out on unwinding direction CD Tag (Hub): Label face-in unwinding direction CD/DVD Overlay Tag (X-Range): Label face-in unwinding direction
AFI (Application Family Identifier)	For multi-application support and/or check-in/checkout library item control Usable in plain mode or 32-bit password protected
EAS (Electronic Article Surveillance)	On-board feature to prevent shoplifting or pilferage of books, CD's or DVD's Usable in plain mode or 32-bit password protected
Product Thickness	Book Tags (Booklite and Racetrack): 0.32mm CD Tag (Hub): 0.35mm CD/DVD Overlay Tag (X-Range): 0.38mm
ESD	+2KV maximum peak, human body model (HBM) accordingly to chip specification
Product Quality	Electrical inspection on 100% of units
Product Options	Clear PET Printed artwork (library logos for ownership marking) Barcode (single or dual, for "buddy labels") Chip encoding with static or dynamic information
Operation Temperatures	-20° ~ 70°C (-4° ~ 158°F), at <60% RH (according to and limited by chip specifications)
Reliability	Thermal Cycle Test: 100 cycles under -55° to 85°C (-67° to 185°F) 15 mins dwell Thermal Humidity Test: 168 hours under 85°C (185°F), 85% RH



rfidTAG Racetrack (Book Tag)

RFID Inlay

Size (final cut-out)	80 x 50 mm
Thickness (over IC)	~ 280 µm
Thickness (over antenna)	~ 160 µm

RFID Chip

IC Code	NXP ICODE SLIX2 SL2S2602
RF Protocol	ISO/IEC 15693
Thickness	~ 120 µm
EEPROM Memory Size	2560 bits
User Memory Size	2528 bits

Antenna Substrate (HF 13.56 MHz Identiv Smart Inlays)

Antenna Size	76x45 mm
Material	Aluminum etched on PET substrate **Optional Clear PET substrate
Cross-over Connection	Crimping process



Tag shown at actual size

Reliability

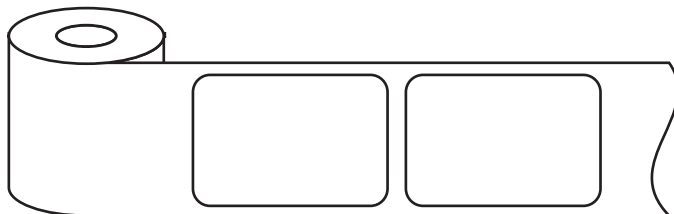
Operating Temperatures	-20° ~ 70°C (-4° ~ 158°F), at <60%RH (according to and limited by chip specification)
Thermal Cycle Test	100 cycles under -55°/85°C (-67°/185°F) 15min dwell
Thermal Humidity Test	168 hours under 85°C (185°F)/85% RH

Product Options

Clear PET
Printed Artwork (library logos for ownership marking)
Barcode (single or dual, for "buddy labels")
Chip encoding with static or dynamic information

Reel Delivery Format

Flange Size	OD 230mm: ID 76mm
Unwinding Orientation:	Chip trailing
Quantity/Reel (functional units)	1,500 Units





rfidTAG Booklite (Book Tag)

RFID Inlay

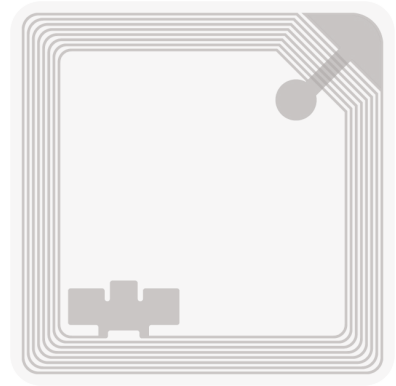
Size (final cut-out)	50 x 50 mm
Thickness (over IC)	~ 280 µm
Thickness (over antenna)	~ 160 µm

RFID Chip

IC Code	NXP ICODE SLIX2 SL2S2602
RF Protocol	ISO/IEC 15693
Thickness	~ 120 µm
EEPROM Memory Size	2560 bits
User Memory Size	2528 bits

Antenna Substrate (HF 13.56 MHz Identiv Smart Inlays)

Antenna Size	47x47 mm
Material	Aluminum etched on PET Substrate **optional clear PET substrate
Cross-over Connection	Crimping process



Tag shown at actual size

Reliability

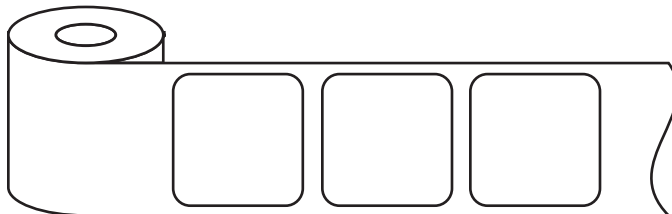
Operating Temperatures	-20° ~ 70°C (-4° ~ 158°F), at <60%RH (according to and limited by chip specification)
Thermal Cycle Test	100 cycles under -55°/85°C (-67°/185°F) 15min dwell
Thermal Humidity Test	168 hours under 85°C (185°F)/85% RH

Product Options

Clear PET
Printed Artwork (library logos for ownership marking)
Barcode (single or dual, for "buddy labels")
Chip encoding with static or dynamic information

Reel Delivery Format

Flange Size	OD 230mm: ID 76mm
Unwinding Orientation:	Chip trailing
Quantity/Reel (functional units)	2,000 Units





rfidTAG X-Range (CD/DVD Tag)

RFID Inlay

Size (final cut-out)	OD \varnothing 116 mm, ID \varnothing 41 mm
Thickness (over IC)	~ 400 μ m
Thickness (over antenna)	~ 280 μ m

RFID Chip

IC Code	NXP ICODE SLIX2 SL2S2602
RF Protocol	ISO/IEC 15693
Thickness	~ 120 μ m
EEPROM Memory Size	2560 bits
User Memory Size	2528 bits

Antenna Substrate (HF 13.56 MHz Identiv Smart Inlays)

Antenna Size	\varnothing 110 mm
Material	Aluminum etched on clear, PET Substrate
Cross-over Connection	Crimping process

Reliability

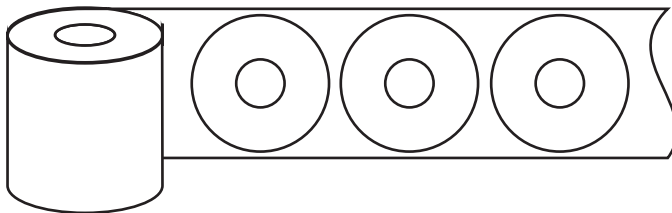
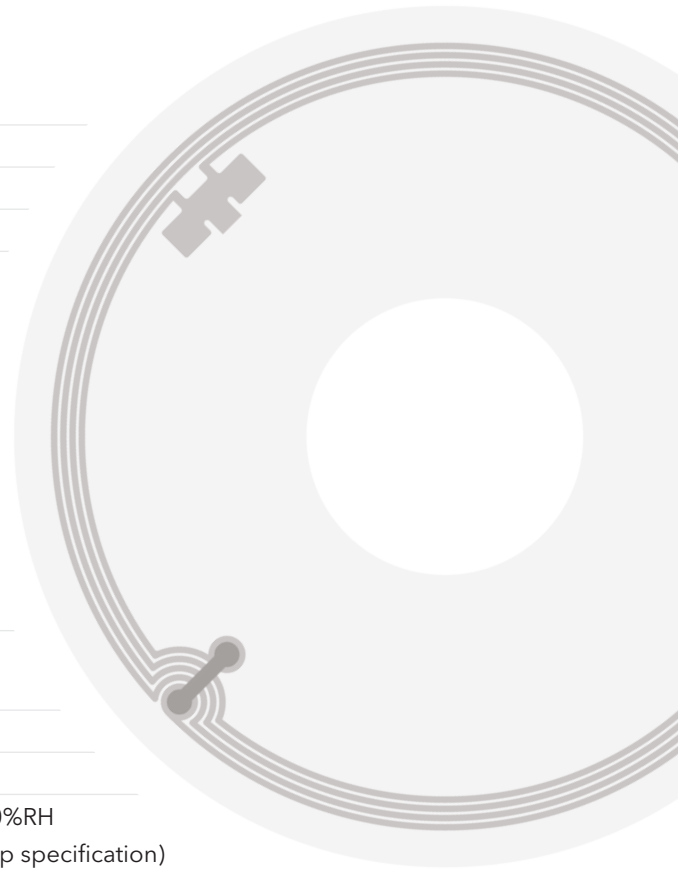
Operating Temperatures	-20° ~ 70°C (-4° ~ 158°F), at <60%RH (according to and limited by chip specification)	
Thermal Cycle Test	100 cycles under -55°/85°C (-67°/185°F) 15min dwell	Tag shown at actual size
Thermal Humidity Test	168 hours under 85°C (185°F)/85% RH	

Product Options

Printed Artwork (library logos for ownership marking)
Barcode (single or dual, for "buddy labels")
Chip encoding with static or dynamic information

Reel Delivery Format

Flange Size	OD 300mm: ID 76mm
Quantity/Reel (functional units)	1,000 Units





rfidTAG Hub (CD Tag)

RFID Inlay

Size (final cut-out)	OD \varnothing 42 mm, ID \varnothing 16 mm
Thickness (over IC)	~ 320 μ m
Thickness (over antenna)	~ 200 μ m

RFID Chip

IC Code	NXP ICODE SLIX2 SL2S2602
RF Protocol	ISO/IEC 15693
Thickness	~ 120 μ m
EEPROM Memory Size	2560 bits
User Memory Size	2528 bits

Antenna Substrate (HF 13.56 MHz Identiv Smart Inlays)

Antenna Size	\varnothing 34 mm
Material	Aluminum etched on PET Substrate
Cross-over Connection	Crimping process

Reliability

Operating Temperatures	-20° ~ 70°C (-4° ~ 158°F), at <60%RH (according to and limited by chip specification)
Thermal Cycle Test	100 cycles under -55°/85°C (-67°/185°F) 15min dwell
Thermal Humidity Test	168 hours under 85°C (185°F)/85% RH

Product Options

Printed Artwork (library logos for ownership marking)
Barcode (single or dual, for "buddy labels")
Chip encoding with static or dynamic information

Reel Delivery Format

Flange Size	OD 230mm: ID 76mm
Unwinding Orientation:	Chip trailing
Quantity/Reel (functional units)	2,000 Units



Tag shown at actual size

