

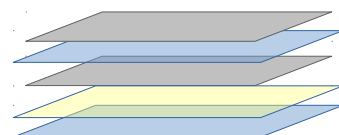
### Inlay Layout and Dimensions

	IN610B
Antenna diameter	18mm ± 0.2mm(0.72in ± 0.01in)
Lengthwise pitch	24.19 ± 0.2mm(0.95 ± 0.01in)
Web width	24mm ± 0.2mm(0.94 ± 0.01in)

### Inlay Composition

Composition	Material	Thickness* [µm]
Top	Aluminium	30
Support	Polyester PET	38
Bottom	Aluminium	30
Adhesive	PSA	16
Protective layer	Polyester PET	12

Top  
Support  
Bottom  
Adhesive  
Protective layer



\* Overall thickness depends on the IC. For IC thickness please refer to the "Available ICs" table

### Available ICs

Mifare	NXP Mifare Ultralight	NXP Mifare Ultralight C	NXP Mifare Ultralight Ev1 (80 byte)	NXP Mifare Ultralight Ev1 (164 byte)	NXP Mifare1K	NXP Mifare4K
Product code	<b>IN610B-PMF2</b>	<b>IN610B-PMFUC</b>	<b>IN610B-MFU1</b>	<b>IN610B-MFU2</b>	<b>IN610B-MF1K4</b>	<b>IN610B-MF4K4</b>
Operating freq.	13.56 MHz	13.56 MHz	13.56 MHz	13.56 MHz	13.56 MHz	13.56 MHz
RF Standard	ISO 14443 A (up to level 3)	ISO 14443 A (up to level 3)	ISO 14443 A (up to level 3)	ISO 14443 A (up to level 3)	ISO 14443 A (up to level 3)	ISO 14443 A (up to level 3)
Thickness	120µm ± 15µm	120µm ± 15µm	120µm ± 15µm	120µm ± 15µm	150µm ± 15µm	150µm ± 15µm
Operating temp.	-25°C to +70°C	-25°C to +70°C	-25°C to +70°C	-25°C to +70°C	-25°C to +70°C	-25°C to +70°C
Storage temp.	-55°C to +125°C	-55°C to +125°C	-55°C to +125°C	-55°C to +125°C	-55°C to +125°C	-55°C to +125°C
UID	7 bytes	7 bytes	7 bytes	7 bytes	4 bytes (MF1K7: 7 bytes)	4 bytes (MF4K7: 7 bytes)
Memory size	64 bytes	192 bytes	80 bytes	164 bytes	1024 bytes	4096 bytes
Memory organization	16 pages of 4 bytes	48 pages of 4 bytes	20 pages of 4 bytes	41 pages of 4 bytes	16 sectors of 64 bytes	32 sectors of 64 bytes + 8 sectors of 256 bytes
Write endurance	5 years	5 years	10 years	10 years	10 years	10 years
Data retention	10 000 cycles	10 000 cycles	100 000 cycles	100 000 cycles	100 000 cycles	100 000 cycles

### Available ICs

NTAG	NXP NTAG 210	NXP NTAG 212				
Product code	<b>IN610B-NT210</b>	<b>IN610B-NT212</b>				
Operating freq.	13.56 MHz	13.56 MHz				
RF Standard	ISO 14443 A (up to level 3)	ISO 14443 A (up to level 3)				
Thickness	120µm ± 15µm	120µm ± 15µm				
Operating temp.	-25°C to +70°C	-25°C to +70°C				
Storage temp.	-55°C to +125°C	-55°C to +125°C				
UID	7 bytes	7 bytes				
Memory size	80 bytes	164 bytes				
Memory organization	20 pages of 4 bytes	41 pages of 4 bytes				
Write endurance	10 years	10 years				
Data retention	100 000 cycles	100 000 cycles				

Other ICs are available for this antenna (Mifare Plus, DESFire and Infineon families): please contact us for further information

### General supply conditions

Reel dimensions	Internal diameter	76 mm
	External diameter	< 300 mm
Reel quantity	Inlay per reel	10 000 ± 10% (custom sizes available upon request)