



Inlay Layout and Dimensions

	IN520
Antenna width	28 mm ± 0.2 mm (1.10 ± 0.01 in)
Antenna length	75 mm ± 0.2 mm (2.95 ± 0.01 in)
Lengthwise pitch	91 mm ± 0.2 mm (3.58 ± 0.01 in)
Web width	31.5 mm ± 0.2 mm (1.24 ± 0.01 in)

Inlay Composition

Composition	Material	Thickness* [µm]
Top	Aluminium	30
Support	Polyester PET	38
Bottom	Aluminium	10 ± 20

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

Available ICs

	NXP Mifare Ultralight	NXP Mifare Ultralight C	NXP Mifare Mini	NXP Mifare Std 1k	NXP Mifare Std 4k
Product code	IN520-PMF2	IN580-PMFUC	IN520-PMFM	IN520-PM1K	IN520-PM4K
Operating frequency	13,56 MHz	13,56 MHz	13,56 MHz	13,56 MHz	13,56 MHz
Standard compliance	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	150µm ± 15µm	150µm ± 15µm	150µm ± 15µm
Operating temperature	-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 temperature	-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
Unique serial number	7 bytes	7 bytes	4 bytes	4 bytes	4 bytes
Memory size	64 bytes	192 bytes	320 bytes	1024 bytes	4096 bytes
Memory organization	16 pages of 4 bytes	48 pages of 4 bytes	5 sectors of 64 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
Data retention	100 000 cycles	10 000 cycles	100 000 cycles	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	8000 ± 10% (custom sizes available upon request)