



Inlay Layout and Dimensions

	IN501
Antenna width	45 mm ± 0,2 mm (1,77 ± 0,01 in)
Antenna length	75 mm ± 0,2 mm (2,95 ± 0,01 in)
Lengthwise pitch	79 mm ± 0,2 mm (3,11 ± 0,01 in)
Web width	48 mm ± 0,2 mm (1,89 ± 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 Mini	NXP Mifare Std 1k	NXP Mifare Std 4k	INFINEON SLE 66R35
Operating frequency	13,56 MHz				
Standard compliance	ISO 14443 A (up to level 3)				
Product code	IN501-PMF2	IN501-PMFM	IN501-PM1K	IN501-PM4K	IN501-IL35
Thickness	120µm ± 15µm	150µm ± 15µm			na
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	-40°C to +125°C
Unique serial number	7, cascaded	4 bytes	4 bytes	4 bytes	4 bytes
Memory size	64 bytes	320 bytes	1024 bytes	4096 bytes	1024 bytes
Memory organization	16 pages of 4 bytes	5 sectors of 64 bytes	16 sectors of 64 bytes	32 sectors of 64 bytes – 8 sectors of 256 bytes	16 sectors of 64 bytes
Write endurance	5 years	10 years	10 years	10 years	10 years
Data retention	100.000 cycles	100.000 cycles	100.000 cycles	100.000 cycles	100.000 cycles

Other ICs are available for this antenna (Innovation): please contact us for further information

General supply conditions

Reel dimensions	Internal diameter	76 mm
	External diameter	300 mm
Reel quantity	Inlay per reel	8.000 ± 10% (custom sizes available upon request)