



Inlay Layout and Dimensions

	IN503	IN513
Antenna width	45 mm ± 0,2 mm (1,77 ± 0,01 in)	45 mm ± 0,2 mm (1,77 ± 0,01 in)
Antenna length	76 mm ± 0,2 mm (2,99 ± 0,01 in)	76 mm ± 0,2 mm (2,99 ± 0,01 in)
Lengthwise pitch	79 mm ± 0,2 mm (3,11 ± 0,01 in)	96 mm ± 0,2 mm (3,78 ± 0,01 in)
Web width	48 mm ± 0,2 mm (1,89 ± 0,01 in)	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 ICODE SL2 ICS20	NXP ICODE SLI-S ICS53	NXP ICODE SLI-L ICS50	TI HF-I STD/PRO	ST LRI2K*
Operating frequency	13,56 MHz	13,56 MHz	13,56 MHz	13,56 MHz	13,56 MHz
Standard compliance	ISO 15693 ISO 18000-3	ISO 15693 ISO 18000-3	ISO 15693 ISO 18000-3	ISO 15693 ISO 18000-3	ISO 15693 ISO 18000-3
Product code	IN503-PSL2 IN513-PSL2	IN503-PSSS IN513-PSSS	IN503-PSLL IN513-PSLL	IN503-TISD IN513-TISD	- IN513-LR2K
Thickness	150µm ± 15µm	150µm ± 15µm	150µm ± 15µm	150µm ± 15µm	180µm ± 15µm
Operating temperature	-25°C to +85°C	-25°C to +85°C	-25°C to +85°C	-25°C to +70°C	-20°C to +85°C
Storage temperature	-55°C to +140°C	-55°C to +140°C	-55°C to +140°C	-40°C to +85°C	n/a
Unique serial number	8 bytes	8 bytes	8 bytes	8 bytes	8 bytes
Memory size	1024 bits	2048 bits	512 bits	256 bits	2048 bits
Memory organization	32 blocks of 4 bytes	16 pages with 4 blocks of 4 bytes	16 blocks of 4 bytes	8 blocks of 4 bytes	64 blocks of 4 bytes
Write endurance	10 years	10 years	10 years	10 years	40 years
Data retention	100.000 cycles	100.000 cycles	100.000 cycles	100.000 cycles	1.000.000 cycles

Other ICs are available for this antenna (ST, Infineon, Innovision): please contact us for further information

(*) LRI2K available only for IN513 layout

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)