

P RELA R Prelaminated Inlay For Contacless Card

OVERVIEW	
Product History at SMARTRAC	High volume production, customized samples on request
Product description	Laminated (PRELAM [®]) or unlaminated inlay in sheet form embedded with module and antenna
PRODUCT HIGHLIGHTS	
Antenna	High Frequency: The leading antenna tech- nology patented world wide - wire embedded Low Frequency: Air coil wound
Interconnection Method	Reliable and proven Thermal Compression bonding (TC bonding)
Construction	Multi-layered construction
Sheet Registration	Reference edges, printed cross marks, copper wire fiducials, registration holes
Applications	Automated fare collection, identification, and ticketing
IC FEATURES	
General Remark	SMARTRAC works with any type of ICs available on ther market. The company is independant from chip manufacturers. With most of the leading IC suppliers, SMARTRAC has completed the qualification of our inlays embedded with their chips
Standards	Contactless ISO 14443, ISO 15693
TRANSPONDER SPECIFICATIONS	
Antenna Size	ID-1, or according to customer's specifications
Sheet Dimensions	3x7, 4x10, 6x6 and customized layouts
Materials	PVC, PET-G, PC, other materials on request
MECHANICAL PROPERTIES	
Inlay Thickness	Typically 400 μm (depending on module type)
ELECTRICAL PROPERTIES	
Operating Frequency	Nominal Low Frequency: 125kHz Nominal High Frequency: 13.56 MHZ (transponder trimming according to specifications)



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