

# RSI-501 Inlay

13.56 MHz Global Passive Transponder



Sirit's RSI-501 is an HF inlay designed for general use applications. The RSI-501 is a small form factor inlay designed for use with ICODE, Mifare and ST Micro chips.



Performance Characteristics	
Operating Frequency:	13.56 MHz
Supported Protocol:	ISO 15693; ISO 14443A
Functionality:	Read/Write
Memory	
Chip Type:	ICODE SLI-L (512 bits)
	ICODE SLI (1024 bits)
	ICODE SLI-S (2048 bits)
	Mifare Ultralite (512 bits)
	Mifare 1K (1024 bits)
	Mifare 4K (4096 bits)
	ST LRI2K (2048 bits)
EEPROM data retention:	10 years
EEPROM write endurance:	100,000 cycles
Physical Characteristics	
Dimensions (WxL):	Antenna - 20.0 x 60.0 mm (0.79 x 2.37 in.) Wet Inlay - 22.86 x 62.992 mm (0.9 x 2.48 in.)
Pitch:	70.0 mm (2.756 in)
Antenna Material Type:	Conductive Silver Ink
Yield:	95% (Dry); 99.6% (Wet)
Core Size:	3 in
Quantity/Roll:	5,000 (Dry); 1,000 or 5,000 (Wet)
Part Number:	IN-501 (Dry) WI-501 (Wet)
Environment	
ESD Voltage Immunity:	+/- 3kV
Operating Temperature:	-40°C to +85°C (-40°F to 185°F)
Storage Temperature:	-55°C to +125°C (-67°F to 257°F)
Relative Humidity:	30% - 70%

For more information contact Sirit tag sales at 1.619.656.2515 or at



#### About Sirit Inc.

Sirit Inc. (TSX: SI) is a leading provider of Radio Frequency Identification (RFID) tags, readers, embedded modules and services, and a leading vertically integrated manufacturer of antennas, inlays and tags, which when integrated with our partners' products are designed to make RFID work. Sirit's core skills in rapid tag design and high quality manufacturing of inlays and labels, coupled with its extensive systems design and integration expertise, enable it to deliver complete, innovative solutions to complex RFID problems across global markets. For more information contact Sirit tag sales at 619.656.2515 or visit [www.sirit.com](http://www.sirit.com).