

RSI-650 Inlay

865 - 928 MHz Global, Passive Transponder



Sirit's RSI-650 antenna is a high-performance midrange antenna designed for use in applications with size limitations, and performs best when applied to plastic. The RSI-650 offers performance comparable to antennas with a larger footprint, is designed for use with NXP UCODE ICs, and has options for standard or additional user memory.



Performance Characteristics

Operating Frequency:	902 - 928 MHz Americas, 4 W EIRP 869.4 - 869.56 MHz Europe, 0.5 W ERP 865.6 - 867.6 MHz Europe, 2 W ERP
Supported Protocol:	ISO 18000-6C
Data Transfer Rate:	Up to 640 kbps
Functionality:	Read/Write

Memory

Chip Type:	NXP UCODE G2XL or G2XM
EPC:	96 bits, scaleable
User Memory:	512 bits (G2XM Only)
Tag Identifier:	64 bits
Access password:	32 bits
Kill password:	32 bits
EEPROM data retention:	10 years
EEPROM write endurance:	100,000 cycles

Physical Characteristics

Dimensions (WxL):	Antenna - 70.897 x 8.0 mm (2.79 x 0.315 in.) Wet Inlay - 76.20 x 12.70 mm (3.0 x 0.5 in.)
Pitch:	15.875 mm (0.625 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-50 (Dry) WI-50 (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.