

SMART CARD – SIM/SAM CONNECTOR – S20 SERIES

Extended with locating peg option

OVERVIEW

The S20 series SIM/SAM card connector is designed to meet interconnection requirements of “plug-in” SIM/SAM cards and also to provide SIM/SAM card interface for GSM terminals. This connector is equipped with 6 contacts, hinge, cover and SIM/SAM card guidance system.

The S20 series SIM/SAM card connector is now available in a pegged version. Locating pegs aid the placement of connector onto PCBs during automatic and manual soldering process.



FEATURES

- Locating peg option
- Designed with Surface Mount (SMT) termination
- Low profile design at 2.5mm above PCB
- Polarization feature
- Tape and reel packaging
- Visible SMT contact tails and “open window” cover design
- Hinged cover design

BENEFITS

- Simplify positioning even in manual assembly condition
- Suitable for reflow soldering
- Caters to different application requirement
- Ensures correct orientation of SIM/SAM card
- Designed for automatic assembly process
- Allows easy electrical testing of the soldered connector
- Reliable and durable locking and latching mechanism



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TECHNICAL INFORMATION

MATERIALS

- Housing: High temperature thermoplastic, UL94V-0
- Contact: Copper Alloy
- Plating: Gold over Nickel or equivalent
- Solder Tail Area: Matte Tin over Nickel

ELECTRICAL PERFORMANCE

- Insulation Resistance: $\geq 1000M\Omega$
- Withstanding Voltage: $\geq 1000VRMS$
- Contact Resistance: $\leq 100m\Omega$
- Current Rating: $10\mu A$ min., 1A max.

ENVIRONMENTAL

- Operating Temperature: $-40^{\circ}C$ to $+85^{\circ}C$
- Environmental Tests:
 - Vibration Operational Test: CEI 68-2-36
 - Shock Test: CEI 68-2-27
- Drop Tests:
 - Thermal Shock: CEI 68-2-14
 - Packaging: EIA 481-3
- Material can withstand SMT temperature profile peak $260^{\circ}C$ max. /10 seconds

MECHANICAL PERFORMANCE

- Mating Interference: ISO 7816-2
- Contact Force: 0.5N max. in accordance with GSM 11.11 specification
- Contact Travel: 0.07mm
- Durability: 10,000 mating cycles
- Coplanarity: 0.1mm max.
- Operating Forces (to lock or unlock the cover): Between 2N and 8N
- Operating Angles (to open the cover): Between 0° and 180°

SPECIFICATIONS

- Product Specification: VJW54355

APPROVALS AND CERTIFICATIONS

- GSM 11.11 standards
- RoHS compliant

PACKAGING

- Tape and Reel

TARGET MARKET/APPLICATIONS

- Consumer
 - POS equipment
 - GSM Terminal
 - Set-top Box
 - Vending Machine

PART NUMBERS

Description	Part Numbers
S20 series SIM/SAM card connector	7111S2015X02LF
S20 series SIM/SAM card connector with locating pegs	7112S2015X02LF

INOSCS200815EA4