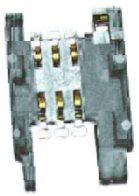
SMART CARD – SIM / SAM CONNECTOR – S16 SERIES

OVERVIEW

This connector is designed to meet interconnection requirements of “plug in” microSIM cards. Designed to provide reliable SIM card interface for GSM terminals. The S16 series is equipped with 6 contacts, guided insulator and with or without a switch terminal.



FEATURES & BENEFITS

- Compact design: only 3.75mm above board profile
- Connector can be easily integrated into the terminal, as the card guidance, card end stop and detection switch are already incorporated into the connector design
- Sliding connector interface provides reliable self cleaning of the contact before locking
- Designed for SMT automatic assembly processes
- Supplied in tape and reel packaging

TARGET MARKETS/APPLICATIONS

- Subscriber Identity Module (SIM), Connector interface for GSM terminals, Digital PAMR Terminals

TECHNICAL INFORMATION

MATERIALS

- Contact: Copper alloy
- Plating: Gold over nickel or equivalent
- Solder tail area: Matte tin over nickel
- Housing: Thermoplastic UL94V–0

ELECTRICAL PERFORMANCE

- Insulation resistance: ≥ 1000MΩ
- Withstanding voltage: ≥ 1000V RMS
- Contact resistance: ≤ 100mΩ
- Current carrying: Min. 10µA, max. 1A

ENVIRONMENTAL

- Functional temperature range: –40°C to +85°C
- Environmental tests:
  - CEI 68–2–36: Vibration operational test
  - CEI 68–2–27: Shock test
- Environmental tests:
  - CEI 68–2–14: Thermal shock
  - EIA 481–3: Packaging
- Material can withstand SMT temperature profile peak 260°C max. / 10 seconds

PART NUMBERS

Part Number
7111S1615A01LF
7111S1615A02LF
7111S1615A05LF

MECHANICAL PERFORMANCE

- Mating interference according to ISO 7816–2
- Contact force: 0.5 N max. in accordance with GSM 11.11 specification
- Contact travel: 0.61mm +/– 0.07mm
- Durability: 10,000 cycles
- Co–planarity: 0.1mm max.
- Operating forces:
  - Card insertion force: 2.5 N +/– 0.3 N
  - Card removal force: 2 N

SPECIFICATIONS

- Product specification: Refer to customer drawing

SWITCH

- Contact closed resistance: ≤ 100mΩ
- Open contact voltage proof: ≥ 250V RMS

APPROVALS AND CERTIFICATIONS

- The product complies with the standards of GSM 11.11

INOSCS161013EA4

For more information,
please contact: Communications@fci.com
or visit us at www.fci.com