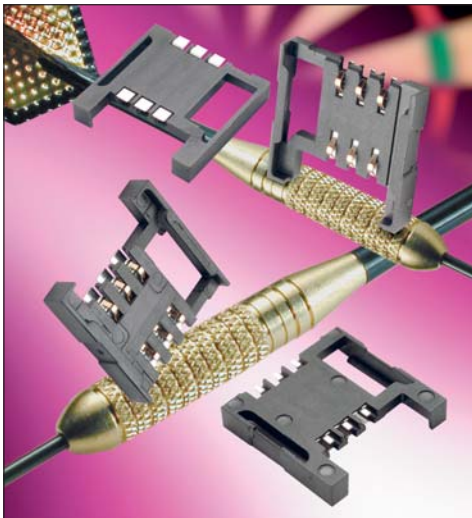# Slide-In SIM

## 9162-200

**AVX INTERCONNECT**
*A KYOCERA GROUP COMPANY*

The standard SIM connector is specifically designed for handheld devices requiring secure subscriber identification.

Following on from the introduction of our standard SIM block with an offering of 3 standard heights, 0.80mm, 1.60mm, or 2.40mm, AVX is now adding another standard to the 9162 series SIM connectors, the slide-in SIM.

Unlike SIM blocks which require SIM card guides to aid insertion, removal and retention of the SIM card, the slide-in SIM has guides as part of the connector mold design.

Contacts are stamped, gold plated, rated 0.5A, and 5000 mechanical cycles.

Our contact design is specifically rounded to avoid any possible damage during and after card insertion to the card itself, assuming normal use. The design also incorporates protection features to avoid contact damage during this operation such as contact snagging.

Please contact the appropriate sales office for further details of this service.

## APPLICATIONS

- Cellular Phones
- Radios

## FEATURES AND BENEFITS

- Produced for use with mini SIM cards.
- The insulator is molded from high temperature plastic enabling the connector to be used in convection or infrared soldering processes.
- Supplied on tape and reel packaging for pick and place assembly.
- The all plastic design, assuming normal use prevents damage to the SIM card on insertion.
- Optional SMT contact size:
    Standard SMT contact size – 1.60mm x 1.60mm
    Narrow SMT contact size – 1.05mm x 0.60mm
- RoHS Compliant available.

## ELECTRICAL

- Current Rating: 0.5 Amp / Contact
- Voltage Rating: 50 VAC

## ENVIRONMENTAL

- Operating Temperature:
  -55ºC to +105ºC

## MECHANICAL

- Insulator Material: Nylon 46 UL94HB
- Contact Material: Phosphor Bronze
- Plating: Gold over Nickel
- Durability: 5,000 Cycles

## HOW TO ORDER

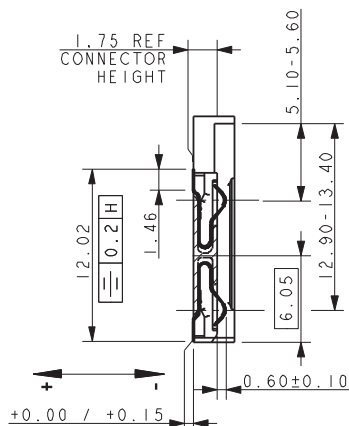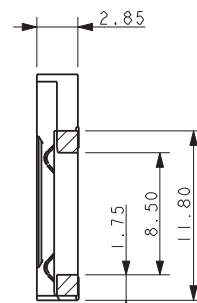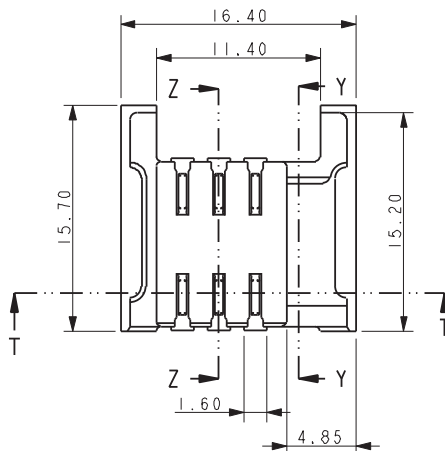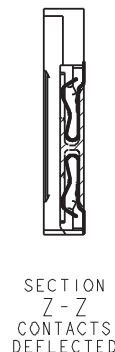| 00 | 9162 | 006 | 2X | 6 | 175 | |
|---|---|---|---|---|---|---|
| **Prefix** | **Series** | **Number of Contacts** | **SIM Type**<br>20 = Standard SMT Foot Slide-in SIM Reader<br>21 = Narrow SMT Foot Slide-in SIM Reader | **Plating Option**<br>6 = Selective Gold Pure Tin Tails | **Connector Height**<br>175 = 1.750mm See pages 2 & 3 | **RoHS COMPLIANT** |

**AVX**

# Slide-In SIM

## 9162-200

AVX INTERCONNECT
A KYOCERA GROUP COMPANY

## WIDE SMT FOOT VERSION



### SECTION Z-Z

1.75 REF CONNECTOR HEIGHT
5.10 - 5.60
12.90 - 13.40
12.02
0.2 H
1.46
6.05
0.60±0.10
+0.00 / +0.15

16.40
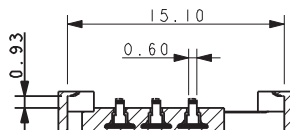11.40
15.70
15.20
1.60
4.85

2.85
1.75
8.50
11.80

### SECTION Y-Y

SECTION Z-Z CONTACTS DEFLECTED



CONTACT TAILS WITHIN 0.10mm COPLANARITY TOLERANCE SINGLE ROW

### PART SECTION Z-Z ROTATED THRO 90º

### SECTION T-T

15.10
0.60
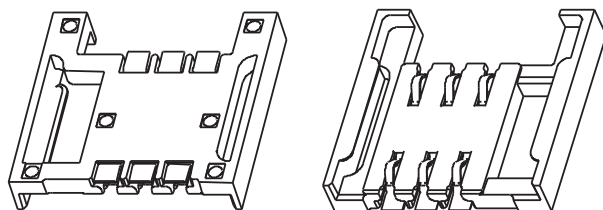0.93

2 PITCHES @ 2.54 = 5.08
3.86

SEE DETAIL A

RADIUS ON CONTACT NOSE
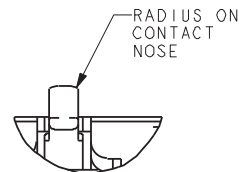
### DETAIL A

CONTACT FUNCTIONS (ISO78161):
1. SSUPPLY VOLTAGE Vcc.
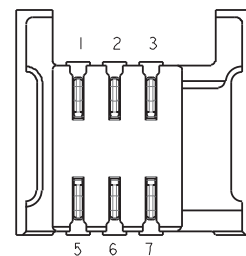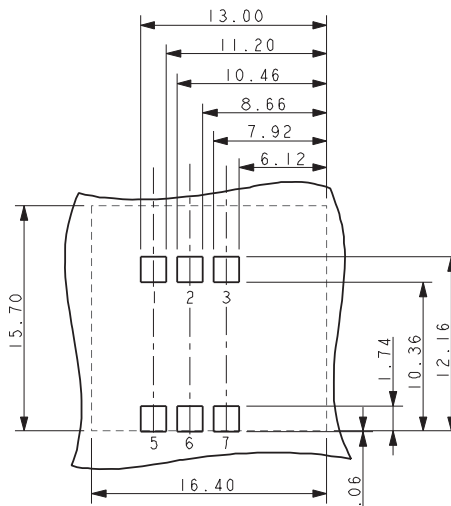2. RESET
3. CLOCK
4. GROUND
5. PROGRAM VOLTAGE Vpp.
6. I/0

### PAD LAYOUT

13.00
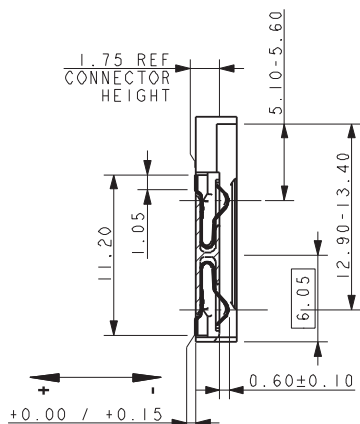11.20
10.46
8.66
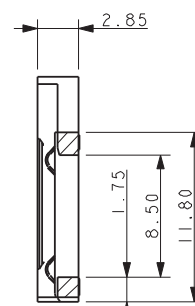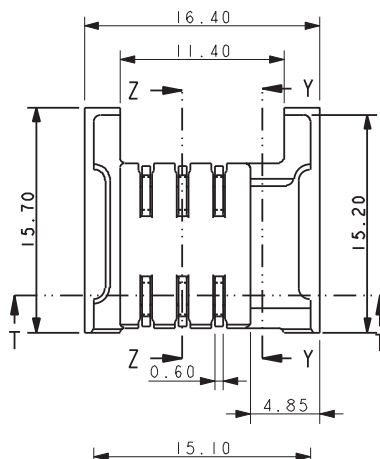7.92
6.12
15.70
1.74
10.36
12.16
16.40
.06

SIM ORIENTATION

NOTES:
1. SALES DRAWING FOR SLIDE IN SIM READER.
2. FOR PRODUCT SPECIFICATION REFER TO ELCO SPEC. 201-01-085.
3. GENERAL TOLERANCE ±0.20 UNLESS OTHER-WISE STATED.
4. INSULATOR MATERIAL:NYLON GLASS FILLED.
5. CONTACT MATERIAL COPPER ALLOY: SIM CONTACTS NOSE PLATED WITH GOLD, SMT PADS PLATED WITH PURE TIN.
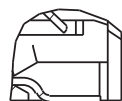6. PACKING DETAILS SEE PAGE 4.

AVX

# Slide-In SIM

## 9162-200
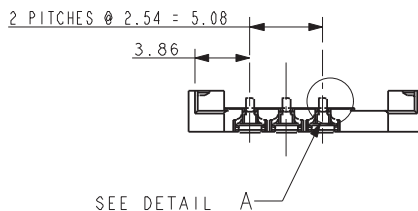
## NARROW SMT FOOT VERSION

### SECTION Z-Z

1.75 REF CONNECTOR HEIGHT
5.10-5.60
11.20
1.05
12.90-13.40
6.05
0.60±0.10
+0.00 / +0.15

16.40
11.40
15.70
15.20
0.60
4.85
15.10

### SECTION Y-Y

2.85
1.75
8.50
11.80

SECTION Z-Z CONTACTS DEFLECTED

DEFLE

### PART SECTION Z-Z ROTATED THRO 90º

CONTACT TAILS WITHIN 0.10mm COPLANARITY TOLERANCE SINGLE ROW

PART SECTION Z-Z ROTATED THRO´ 90°

### SECTION T-T

15.10
0.60
0.93

2 PITCHES @ 2.54 = 5.08
3.86
SEE DETAIL A

### DETAIL A

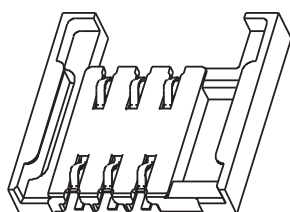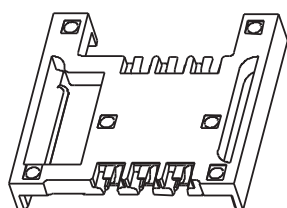RADIUS ON CONTACT NOSE
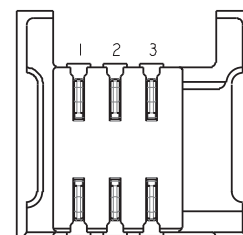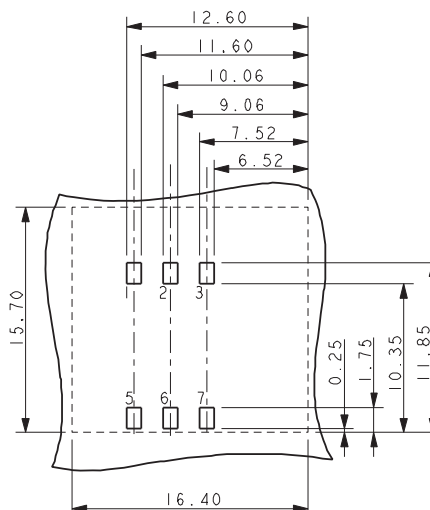
CONTACT FUNCTIONS (ISO78161):
1. SSUPPLY VOLTAGE Vcc.
2. RESET
3. CLOCK
4. GROUND
5. PROGRAM VOLTAGE Vpp.
6. I/0

### PAD LAYOUT

12.60
11.60
10.06
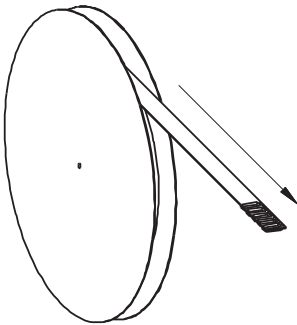9.06
7.52
6.52
15.70
0.25
1.75
0.35
11.85
16.40

1 2 3
5 6 7
SIM ORIENTATION

NOTES:
1. SALES DRAWING FOR SLIDE IN SIM READER.
2. FOR PRODUCT SPECIFICATION REFER TO ELCO SPEC. 201-01-085.
3. GENERAL TOLERANCE ±0.20 UNLESS OTHER-WISE STATED.
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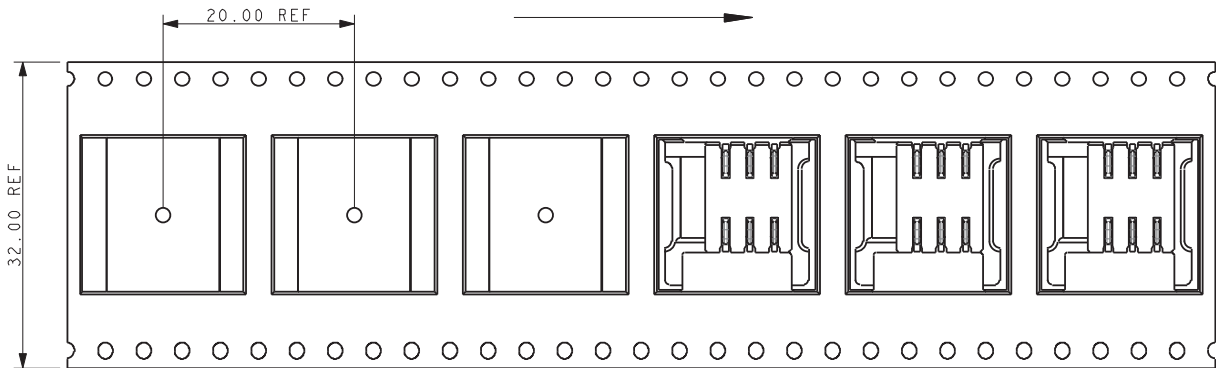6. PACKING DETAILS SEE PAGE 4.

# Slide-In SIM

## 9162-200

\textbf{AVX INTER}\textit{CONNECT}

A KYOCERA GROUP COMPANY

## PACKING DETAILS



(SHOWING USER DIRECTION OF FEED)

**Reel Size 380mm Dia.**

| REEL QTY | 1100 |
|---|---|
| LEADER | 500MM |
| TRAILER | 500MM |
| REELS/BOX | 4 |
| PACK QTY | 4400 |



20.00 REF

32.00 REF

# Mouser Electronics

Authorized Distributor

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