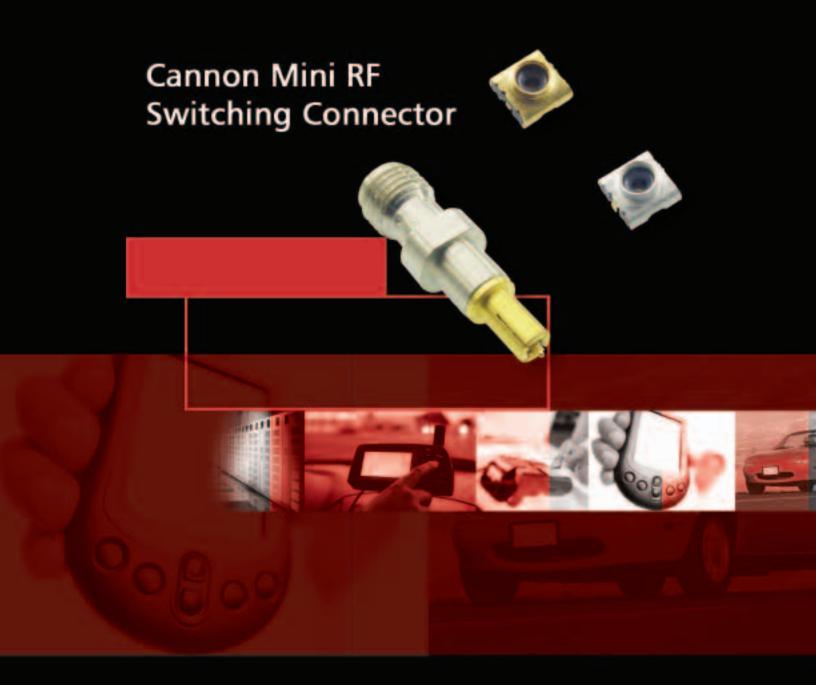


# **Electronic Components**



Engineered for life

## Mini RF Switching Connector

Mini RF connectors are the ideal solution for customers producing devices that require verification of antenna or circuit board performance. They are specifically designed for use with portable terminal interfaces and the inspection of microwave boards used at frequencies of up to 6 GHz. The specially incorporated flared interface cone not only allows the user to snap on a bench test adaptor but also allows high mating cycles on the accessory connector.

Mini RF Series 120220-0180 Accessory connector

120220-0190 Test Port

Base materials Copper alloy - Shell

LCP plastic - Insulator
Beryllium copper - Contacts

Plating 120220-0180 - Gold over nickel

120220-0190 - Matt tin finish over nickel

### Features & Benefits of the Design

- Small size / low profile saving space on PCB
- High mating cycles on accessory port
- Switchable
- High force on the switch providing more robust connection
- Robust design
- Latching mechanism for ease-of-use during bench testing
- Compatible with lead free soldering
- Designed for pick and place
- Cradle interface incorporates patented ball
  - enables angular misalignment without loss to performance
- Compliant with WEEE and RoHS directives

### **ELECTRICAL**

 $\begin{array}{ll} \text{Frequency} & 0.01 - 6 \text{ GHz} \\ \text{Impedance} & 50\Omega \text{ nominal} \\ \text{VSWR} & \leq 1.2:1 \\ \text{Insertion loss} & \text{unmated condition <0.1 dB} \\ & \text{mated condition <0.5 dB} \end{array}$ 

Dielectric withstanding

voltage 100 VAC (150 V peak)

Contact resistance  $200m\Omega$  max (initial)

Power 2 watts

### **MECHANICAL**

Mating Cycles 120220-0180 (with cradle connector)

up to 10,000 mating cycles

120220-0190 (with test adaptor)

100 mating cycles

### **Accessories**

Ball Nose Cradle connector typical for car kit applications and Low Profile Jump Cable typical for board-to-board system connection.

### **ENVIRONMENTAL**

Solder systems Infrared and hot air reflow

suitable for lead-free

Vibration In accordance IEC 68-2-64

Shock In accordance to IEC 68-2-27, 100 g

## **Applications**

- Mobile handset
- Other wireless (PDA, PPC, Gaming)
- Portable phones
- Network carriers base stations
- Automotive key fob / locking
- Industrial transportation equipment
- Cable houses board-to-board cable interconnect
- Electronic measuring instrumentation / equipment
- GPS navigation systems (ETC)
- Wireless LAN

And any small devices requiring verification of antenna / circuit performance.

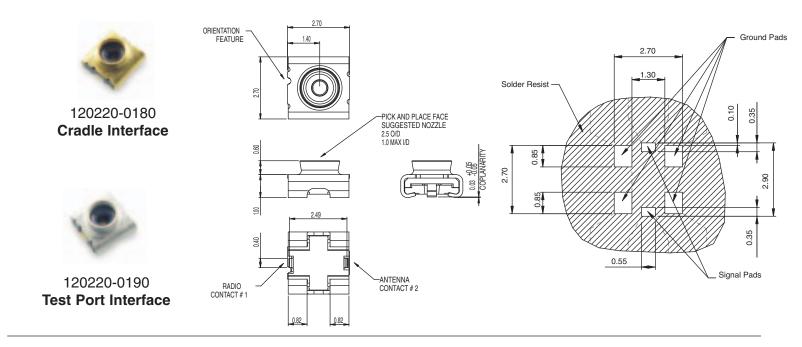
### **PACKAGING**

Packaging style Tape and reel to EIA-481
Packaging size 8000 per reel
Small reel 2000 per reel

A float mount production test adaptor is available by request.

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Specifications and other data are based on information available at the time of printing, and are subject to change without notice.



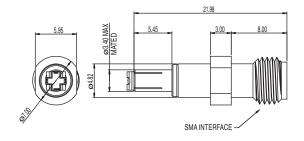
### **Accessories**



120220-0175 Snap-on Bench Test Adaptor



Snap-on mated

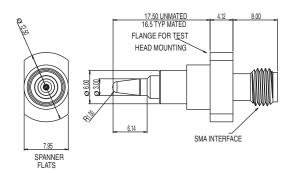




120220-0176 Ball Nose Production Test Adaptor

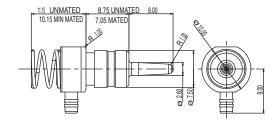


Ball Nose mated





120220-0177 Cradle Connector







### Mini RF Customer Support Locations

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