

Interconnect Solutions Cannon, VEAM, BIW

Ensuring solider safety

in the harshest environments for

20 years and over

500,000 SINCGARS radios







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 Bervllium copper - Contacts

120220-0180 - Gold over nickel

Plating

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
- 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

0.01 - 6 GHz Frequency **Impedance** 50Ω nominal **VSWR** ≤ 1.2:1 Insertion loss unmated condition < 0.1 dB

mated condition < 0.5 dB Dielectric

withstanding voltage 100 VAC (150 V peak)

Contact resistance $200m\Omega$ max (initial) Power 2 watts

Accessories

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

MECHANICAL

Mating Cycles 120220-0180 (with cradle connector) up to 10,000 mating cycles

ENVIRONMENTAL

Operating

PACKAGING

Packaging style

temperature -40 to 85°C

Humidity operable in 95% RH temp +40°C

Infrared and hot air reflow Solder systems

suitable for lead-free

Tape and reel to EIA-481

Vibration In accordance IEC 68-2-64

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

Applications

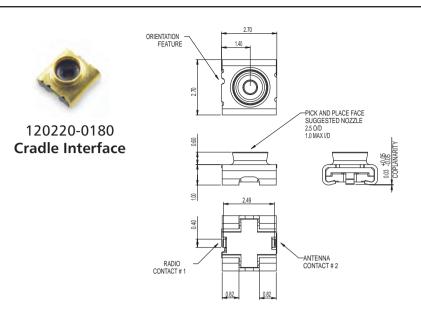
- Mobile handset
- Other wireless (PDA, PPC, Gaming)
- Portable phones
- Network carriers base stations
- Automotive key fob / locking
- Industrial transportation equipment
- Cable houses board-to-board cable interconnect
- Electronic measuring instrumentation / equipment
- GPS navigation systems (ETC)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

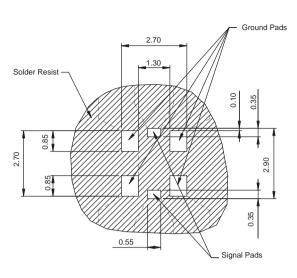
And any small devices requiring verification of antenna/ circuit performance.

Packaging size 8000 per reel

A float mount production test adaptor is available by request.







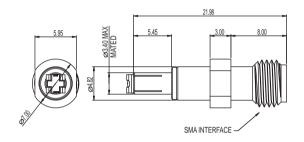
Accessories



120220-0175 Snap-on Bench Test Adaptor



Snap-on mated

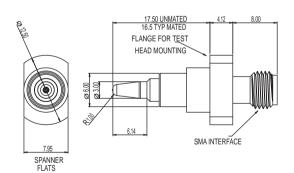




120220-0176 Ball Nose Production Test Adaptor



Ball Nose mated





120220-0177 Cradle Connector (Capability)

