

2000 Series SMP Connectors

50 Ohm SMP Interconnects



Bomar products, like 2000 Series SMP Connectors, are now sold under the Win™ brand from Winchester Interconnect™

Product Description

The 2000 Series 50 Ohm SMP features a snap-in, blind-mate, vibration-resistant interface in accordance with MIL-STD 348. The series can be designed into a wide range of applications, which include, Telecommunications, Test and Measurement, Security, and Medical.

The SMP Series connectors are blind-mating, quick-connect/quick-disconnect connectors that are easy to mate and un-mate in small spaces. They are designed to accommodate a large variety of flexible and semi-rigid cables.

The Plug Connectors feature a crimp/solder for quick assembly or a solder/solder termination for improved electrical performance.

A full line of printed circuit board receptacles and bulkhead receptacles are available.



Winchester offers a wide variety of surface mount printed circuit board connectors, either edge mount or conventional for stacking.



Printed circuit board connectors are available in right-angle or straight thru-hole designs for standard 0.062 PCBs.



SMP connectors are available in either right-angle or straight for flexible and semi-rigid cables.

 **Winchester**
Interconnect.

We Energize Innovation.

Specifications

Electrical**Impedance**

50 Ohms

Frequency Range

0 – 26 GHz

Voltage

335 VRMS at sea level

Dielectric**Withstanding****Voltage**

1500 VRMS at sea level

VSWR

MIL-PRF-39012

Para 3.14, 1.3 Max

Contact Resistance

Center Contact:

≤ 3 Milliohms

Insulation Resistance

5000 Meg Ohms Min

Mechanical**Durability**

Full Detent 100 Cycles

Limited Detent 500 Cycles

Smooth Bore 1000 Cycles

Mating**Characteristics**

Full Detent 15 lbs. Max

Limited Detent 10 lbs. Max

Smooth Bore 2 lbs. Max

Misalignment

Radial +/-0.010 in.

Axial 0.000/0.010 in.

Engagement Force

15 lbs. Max

10 lbs. Max

2 lbs. Max

Retention

5 lbs. Min

2 lbs. Min

0.5 lbs. Min

Material**Body**

Brass/Black Nickel

Plated

Male Contact

Brass/Gold Plated

Female Contact

Phosphor Bronze/

BECU Gold

Insulator

PTFE

Crimp Ferrule

Copper or Brass/

Gold Plated

Environmental**Temperature Rating**

-65°C to +165°C

Vibration

MIL-STD-202

Method 204, Cond D

Shock

MIL-STD-202,

Method 107, Cond B

Part Numbers

Part Number	Description
2021A504-178	SMP 50 OHM Right Angle for RG178 and RG196
2021B504-316	SMP 50 OHM Right Angle for RG174 and RG316
2021C504-316RD	SMP 50 OHM Right Angle for RD316 Double Shield
2021D504-405	SMP 50 OHM Right Angle for RG405 / .086
2021AE504-047	SMP 50 OHM Right Angle for RG405 / .047
2020A504-178	SMP Straight Plug for RG178 / RG196
2020B504-316	SMP Straight Plug for RG174 / RG316
2020C504-316D	SMP Straight Plug for RD316 Double Shield
2022D504-405	Direct Solder SMP Straight Plug for .085 cable
2020A504-047	Direct Solder Straight Plug for .047 cable
2022B504-316	Direct Solder SMP Straight Plug for RG174 / RG316
2022C504-316D	Direct Solder SMP Straight Plug for RD316 Double Shield
2020A504-085	Direct Solder SMP Jack for .085 cable
2062EL10104	SMP 50 OHM Edge Launch Printed Circuit Board for .062
2062A510222	SMP Right Angle Mount Smooth Bore
2062AL10223	SMP Printed Circuit Board Limited Detent
2062SM10223	SMP SMT Plug
2032A504	SMP .254 Bullet



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