## 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 0hm 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 rightangle or straight for flexible and semi-rigid cables.



We Energize Innovation...

## **Specifications**

Electrical

*Impedance* 50 0hms

Frequency Range

o - 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 Resitance** 

Center Contact: ≤ 3 Milliohms

**Insulation Resitance** 5000 Meg Ohms Min

Mechanical

**Durability** 

Full Detent 100 Cycles Limited Detent 500 Cycles Smooth Bore 1000 Cycles

Mating **Characteristics** 

> **Engagement Force Retention** 15 lbs. Max 5 lbs. Min

Full Detent Limited Detent 10 lbs. Max 2 lbs. Min Smooth Bore 2 lbs. Max 0.5 lbs. Min

**Misalignment** 

Radial +/-0.010 in. Axial 0.000/0.010 in. Material

Body

Brass/Black Nickel

Plated

Male Contact Brass/Gold Plated

Female Contact

Phosphor Bronzel 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 1.086
2021AE504-047	SMP 50 OHM Right Angle for RG405 1.047
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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