

SGMS™ Interconnect Series

Product Information

CORNING

Microwave
Products

A miniature, push-on, blindmate, high performance microwave and RF interconnect system. Developed in response to industry demand for durability and power handling.

- Center-to-center spacing of 0.250" available for increased package density.
- The SGMS™ blindmate interconnect, Part No. 1881-001-1, weighs just 0.69 grams.
- RF Performance from DC to 23 GHz
- Designed to accommodate both radial and axial misalignment with negligible VSWR change.
- Snap together mate for reduced assembly and test time.
- Durability exceeds 5,000 mate/demate cycles.



SGMS Product Characteristics¹

- **Impedance:** 50 Ohms
- **Frequency:** DC to 23 GHz
- **VSWR:** 1.15:1 to 23 GHz typical
- **Insulation Resistance:**
5,000 megaohms min.
- **Center Conductor Contact Resistance:**
6.0 milliohms max.
- **DWV @ Sea Level:** 500 Vrms min.
- **Force to Engage:** 4.5 lbs. typical
Limited Detent, 3.0 lbs. typical
Smooth Bore
- **Force to Disengage:** 6.0 lbs. typical
Limited Detent, 1.5 lbs. typical
Smooth Bore
- **Center Contact Retention:**
1.5 lbs. min. (captivated designs)
- **Misalignment, Radial:** ± 0.020 "
- **Misalignment, Axial:** 0.020"
(flush to -0.010" from the
reference plane)
- **Temperature Range:** -65° C to +165° C
- **Environmental Testing:**
Meets MIL-PRF-39012 for Corrosion,
Vibration, Mechanical Shock, Thermal
Shock and Moisture Resistance

Product Examples

6804-100-3



1811-401-3



NOTES:

¹ Performance listed is typical. Individual part configuration may vary. Contact our Customer Care Team for more information and specifications by part number.

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Microwave Products

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