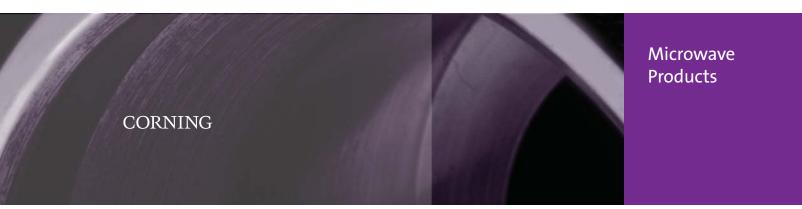
SGMS[™] Interconnect Series

Product Information



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:

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

> Corning Gilbert Microwave Prod

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