

GPO® Interconnect Series

Product Information

CORNING

Microwave
Products

A sub-miniature, push-on, blindmate, high performance microwave and RF interconnect system. Developed in response to industry demand for increased package density.

- Center-to-center spacing of 0.170" available for increased package density.
- The GPO® blindmate interconnect, Part No. A1A1-0001-01 weighs just 0.17 grams.
- RF Performance from DC to 40 GHz
- Designed to accommodate both radial and axial misalignment with negligible VSWR change.
- A full range of adapter support.
- Snap together mate for reduced assembly and test time.
- Complies with SMP interface of MIL-STD-348 in accordance with MIL-PRF-39012, DESC 94007/94008



GPO Product Characteristics¹

- **Impedance:** 50 Ohms
- **Frequency:** DC to 26.5 GHz Extended performance available to 40 GHz
- **VSWR:** 1.15:1 to 26.5 GHz typical; <1.5:1 typical to 40 GHz
- **Insulation Resistance:** 5,000 megaohms min.
- **Center Conductor Contact Resistance:** 6.0 milliohms max.
- **DWV @ Sea Level:** 500 Vrms
- **Corona Level @ 70,000':** 190 Vrms
- **RF High Pot. @ 5 MHz:** 325 Vrms
- **Force to Engage:*** 9.0 lbs. typical Full Detent, 7.0 lbs. typical Limited Detent, 2.0 lbs. typical Smooth Bore
- **Force to Disengage:*** 7.0 lbs. typical Full Detent, 5.0 lbs. typical Limited Detent, 0.5 lbs. typical Smooth Bore
- **Center Contact Retention:** 1.5 lbs. min. (captivated designs)
- **Misalignment, Radial:** $\pm 0.010"$
- **Misalignment, Axial:** 0.010" (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 (paragraphs 3.13, 3.18, 3.19, 3.20, 3.21)

NOTES:

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

* Engage/Disengage forces are not typical when mated with ASTM-F15 shrouds.

Product Examples

A007-L43-01-TAB-R



A014-B11-01



A001-A23-07



A015-B11-01



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Microwave Products

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