

# GPO Female Blindmate Interconnect 0.254 Length



Part Number:  
A1A1-0001-01

## Features and Benefits

Designed to accommodate both radial and axial misalignment with negligible voltage standing wave ratio (VSWR) change

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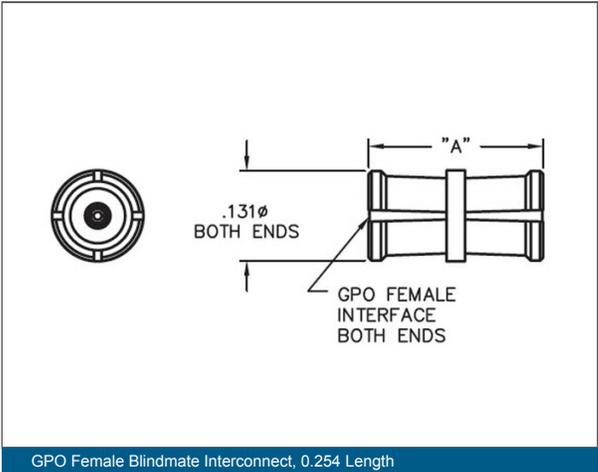
Meets all MIL-STD Performance specifications

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Center-to-center spacing of 0.170-in available for increased package density

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Frequency from DC to 40 GHz



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## Specifications

### General Specifications

Finish, Contacts	Gold plated per MIL-G-45204, Type I, Grade C, Class 1, Over Nickel Plate per SAE AMS-QQ-N-290
Materials, Outer Contacts	Beryllium Copper per ASTM B196 and or/ASTM B197
Materials, Springs	17-7 Stainless Steel per ASTM A313-95A
Finish, Bodies	Gold plated per MIL-G-45204, Type I, Grade C, Class 1, Over Nickel Plate per SAE AMS-QQ-N-290
Materials, Center Contacts	Beryllium Copper per ASTM B196 and or/ASTM B197
Impedance	50 $\Omega$
Materials, Insulators	PTFE Fluorocarbon per ASTM D1710
Frequency Range	DC to 40 GHz typ.
Materials, Bodies	Beryllium Copper per ASTM B196 and or/ASTM B197
Product Type	Interconnects

### Design

Diameter A	3.327 mm (0.13 in)
Diameter B	3.327 mm (0.13 in)

### Mechanical Specifications

Tolerated Misalignment Axial	0.010 (flush to 0.010 from reference plane)
Tolerated Misalignment Radial	$\pm 0.010$
Force to Engage / Disengage LD	5.0 lbs. typical / 7.0 lbs. typical
Typical Force to Engage / Disengage FD	7 lbs / 9 lbs
Typical Force to Engage / Disengage SB	3 lbs / 0.5 lbs

### Electrical Specifications

VSWR	1.10:1 to 8 GHz 1.35:1 to 26.5 GHz 1.5:1 to 40 GHz
Insertion Loss-S	.04 $\sqrt{f}$ (GHz)

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Electrical Specifications	
Contact Resistance - Inner Conductor	6 mΩ
Contact Resistance - Outer Conductor	2 mΩ
Insulation Resistance	5,000 megohms minimum
DWV at Sea Level	500 Vrms
RF Leakage	-80 dB to 3 GHz, -65 dB to 26.5 GHz



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