

# G3PO Female Load

50 Ohm Load, 0.258 Length

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## Specifications

General Specifications	
Category	Loads
Impedance	50 $\Omega$
Frequency Range	DC to 100 GHz typ.
Materials, Bodies	Beryllium Copper per ASTM B196 and or/ASTM B197
Materials, Outer Contacts	Beryllium Copper per ASTM B196 and or/ASTM B197
Materials, Center Contacts	Beryllium Copper per ASTM B196 and or/ASTM B197
Materials, Insulators	PTFE Fluorocarbon per ASTM D1710
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
Finish, Contacts	Gold plated per MIL-G-45204, Type I, Grade C, Class 1, Over Nickel Plate per SAE AMS-QQ-N-290

Temperature Range	
Installation	-65 °C to 165 °C

Design - Hardware	
Dentent Type	
Length	0.258 in
Width	0.104 in
Diameter A	0.063 in
Diameter B	0.104 in

Mechanical Characteristics	
Mate / Demate Cycles FD	100 min
Mate / Demate Cycles LD	500 min
Mate / Demate Cycles SB	1,000 min
Force to Engage / Disengage FD	7.0 lbs. typ. / 9.0 lbs. typical
Force to Engage / Disengage LD	5.0 lbs. typ. / 7.0 lbs. typ.
Force to Engage / Disengage SB	2.5lbs.typ./1.5lbs.typ.
Tolerated Misalignment Axial	0.010 (flush to 0.010 from reference plane)
Tolerated Misalignment Radial	+ / - 0.010

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## Electrical characteristics (at 20°C)

Insertion Loss	0.03 vf GHz
DWV at Sea Level	250 Vrms voltage
Insulation Resistance	≥ 3500 MΩ (DC)
Contact Resistance - Outer Conductor	< 2 mΩ
Contact Resistance - Inner Conductor	< 6 mΩ
VSWR	1.15 + 0.011 to 40 GHz, 1.20:1 to 40 GHz, 1.30:1 to 40 GHz

## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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## Environmental Influences

Thermal Shock	MIL-STD-202, Method 107, Condition B
Salt Spray	MIL-STD-202, Method 101
Vibration	MIL-STD-202, Method 204
Shock	MIL-STD-202, Method 213, Condition I
Moisture Resistance	MIL-STD-202, Method 106, except Step 7B

## Ordering Information

Part Number	R055-A11-01
Product Description	G3PO Female Load, 50 Ohm Load, 0.258 Length
EAN Code	4056418769318



Corning Optical Communications LLC • PO Box 489 • Hickory, NC 28603-0489 USA

800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • [www.corning.com/opcomm](http://www.corning.com/opcomm)

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Corning Optical Communications RF LLC (Corning Gilbert) • 5310 W. Camelback Rd. • Glendale, AZ 85301 USA

800-528-5567 • FAX: 800-344-6358 • International: +1-623-245-1050 • [www.corning.com/opcomm](http://www.corning.com/opcomm)

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