

1.85 mm/1.85 mm DC - 65 GHz, Hermetically Sealed, Coaxial Adapters

DESCRIPTION

"KPC185FFHA" is hermetically sealed 1.85 mm to 1.85 mm coaxial adapter that is;
 -Low SWR and low loss
 -Hermetic RF interface between vacuum and atmosphere environment
 -Small mounting space
 It is designed for broadband devices, instrument, and component testing applications.

SPECIFICATIONS

Electrical:

Frequency Range DC - 65 GHz
 SWR < 1.5
 Insertion Loss < 0.7 dB
 Electrical Length Shown below (Nominal)
 Temperature Range -55 to +125 °C

Mechanical:

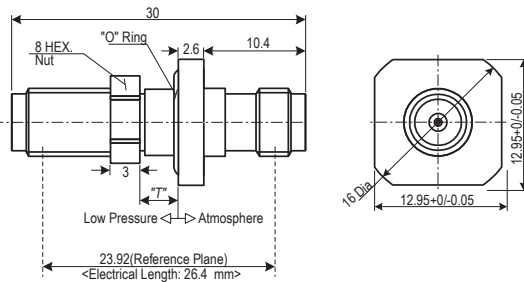
Body and Outer Conductor Gold Plated Stainless Steel
 Inner Conductor Gold Plated Beryllium Copper
 Inner and Outer Conductor for Seal Gold Plated Fe/Ni/Co Alloy (KOVAR)
 Insulator for Seal #7070 Glass (Corning)
 Gasket for Flange Seal Fluoroelastomer "O" Ring
 Coupling Torque 90 N-cm (Nominal)
 Connect/Disconnect Life > 1,000 Cycles
 He Leak Rate (*) < 1×10^{-10} Pam³/sec (< 1×10^{-9} atm cc /sec)



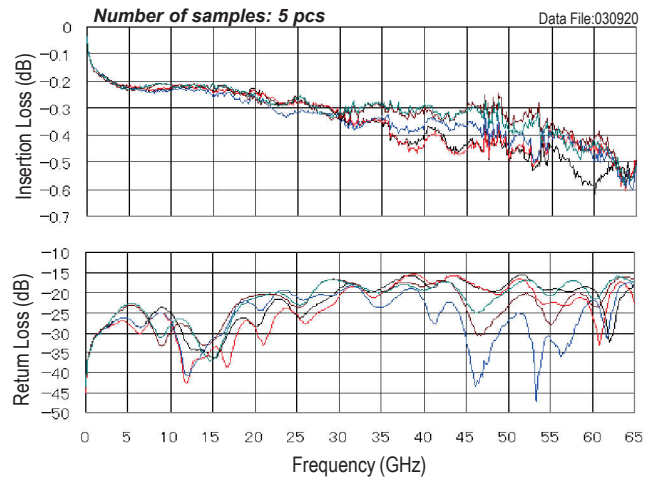
Production Status
 4 Weeks Lead-Time
 for Shipping

Typical Performance

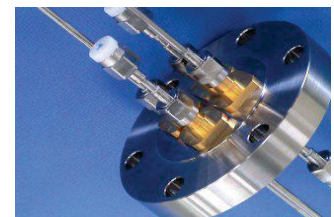
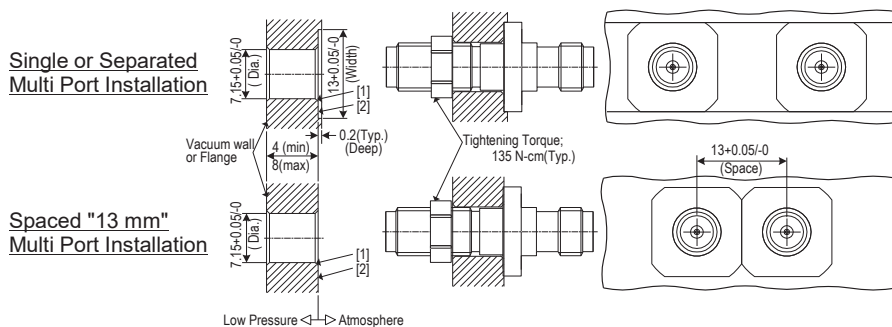
TYPE: KPC185FFHA 1.85 mm Female/1.85 mm Female



"T" : Vacuum wall or flange thickness:
 4 mm (min) to 8 mm (max)



Recommended Mounting Hole and Installation



Example of 4 Adapters Mounted to 70 mm diameter. Vacuum Flange

Interface Mating Dimensions of KPC185 (1.85 mm Connectors <*>)

NOTE:

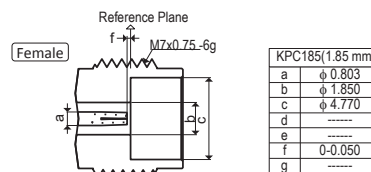
All dimensions are in millimeters.

[1] Corners: < 0.05 x 0.05 mm

[2] "Smooth surface" required

(*) As Per MIL-STD-883E, METHOD1014.10,

Test Condition A4



<*> Matable with 2.4 mm connectors

RoHS Compliant

REACH Compliant

Specifications Subject to Change Without Notice

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