**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 (*): < 1x10^-10 Pam³/sec (< 1x10^-9 atm cc /sec)

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**Production Status**

4 Weeks Lead-Time for Shipping

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**Typical Performance**

- **Number of samples:** 5 pcs
- **Data File:** 030920
- **Frequency (GHz):**
  - **Insertion Loss (dB):**
    - 0 dB @ 30 GHz
    - -10 dB @ 65 GHz
- **Return Loss (dB):**
  - 30 dB @ 30 GHz
  - 20 dB @ 65 GHz

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**Recommended Mounting Hole and Installation**

- **Single or Separated Multi Port Installation**
- **Spaced "13 mm" Multi Port Installation**

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

- **Female**
  - M7x0.75 -6g
- **Reference Plane:**
  - 23.92 (Reference Plane)
  - 12.95+0/-0.05 (Dia.)
  - 13+0.05/-0 (Space)
  - 12.95+0/-0.05 (Dia.)

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**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

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

<=> Matable with 2.4 mm connectors

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**Specifications Subject to Change Without Notice**

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RoHS Compliant

REACH Compliant