**Description**
The coaxial adapters between 1.85mm and SMPM are designed for broadband measurement, instrument and system use.

**Interface standards:**
- 1.85mm connector: IEEE-std-287
- SMPM connector: MIL-STD-348A

**SMPM Connectors**
- SMPM Connectors: F7x0.75-6H
- Female

**Typical Performance**
- Number of adapter pairs: 5

**Specifications**:

**Electrical:**
- Frequency Range: DC - 65 GHz
- Return Loss (*1): Better than 28dB (-20GHz)
  - 17dB (-50GHz)
  - 14dB (-65GHz)
- Insertion Loss (*1): <0.25 dB (-20GHz)
  - <0.50 dB (-50GHz)
  - <0.85 dB (-65GHz)
- Phase error (*1): Within +/- 1 ps (As aperture: 10% of sweep width)

**Electrical Length:** 13.3 mm (typical)

**Temperature Range:** -55 to +125 deg.C

**Mechanical:**
- Coupling Torque: 90 N-cm (Nominal) for 1.85mm
- Mating cycles: >100 for Full Detent, >500 for Smooth Bore
- Engage/ Disengage force: FD- 20 N/ 29 N max.; SB- 11 N/ 8 N max.

**Materials:**
- Body and Outer Conductors: Passivated Stainless steel and Gold Plated Beryllium Copper
- Inner Conductors: Gold Plated Beryllium Copper and Brass

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**Typical Performance**

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**Test Configuration (Example)**

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**Full Detent**

**Type:** KPC185M-SMPM-FD
- 1.85mm Male / SMPM Male (FD)

**Smooth Bore**

**Type:** KPC185M-SMPM-SB
- 1.85mm Male / SMPM Male (SB)

**Interface Mating Dimensions**

**KPC185 (1.85mm Connectors) <(*)>

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**Note:** All dimensions are in Millimeters.

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**Specifications Subject to Change Without Notice.**