

1.85 mm/1 mm DC - 70 GHz, Coaxial Adapters, Between-Series

DESCRIPTION

"KPC185F100F, KPC185F100M, KPC185M100F, and KPC185M100M"

coaxial adapters between 1.85 mm and 1.00 mm are small size, low SWR, and low loss.

They are designed for broadband measurement, instrument, and system applications.

SPECIFICATIONS

Electrical:

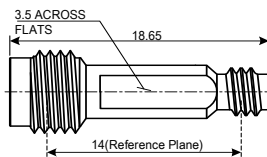
Frequency Range	DC - 70 GHz ⁽¹⁾
SWR	< 1.4
Insertion Loss	0.8 dB (typ.) ⁽²⁾
Electrical Length	14.6 mm (Nominal)
Temperature Range	-55 to +125 °C

Mechanical:

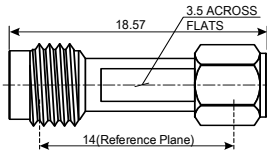
Body and Outer Conductor	Gold Plated Stainless Steel
Inner Conductor	Gold Plated Beryllium Copper and Brass
Coupling Torque	90 N-cm for KPC185 (Nominal) 45 N-cm for KPC100 (Nominal)
Connect/Disconnect Life	> 500 Cycles (Estimate)



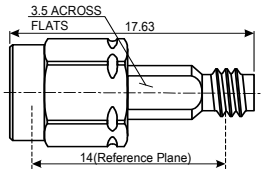
TYPE: KPC185F100F
1.85 mm Female/1 mm Female



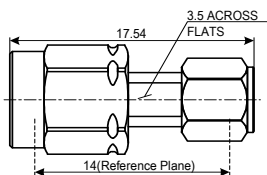
TYPE: KPC185F100M
1.85 mm Female/1 mm Male



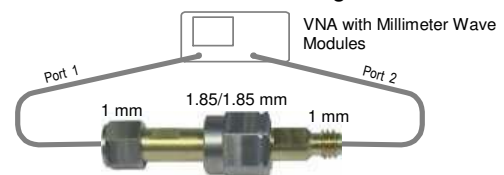
TYPE: KPC185M100F
1.85 mm Male/1 mm Female



TYPE: KPC185M100M
1.85 mm Male/1 mm Male

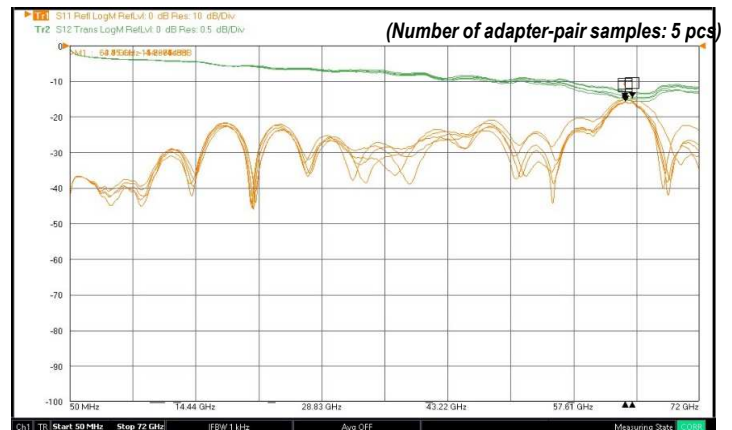


Performance Test Configuration



(Adapter Pair: Insertable-Device)

Typical Performance (Measured up to 72 GHz)



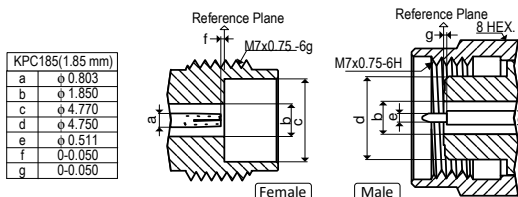
Return (orange line): 10dB/div
Transmission (green line): 0.5dB/div

RoHS Compliant

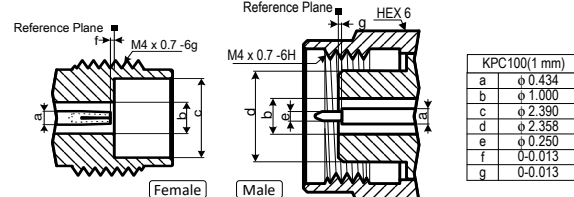
REACH Compliant

Interface Mating Dimensions

KPC185 (1.85 mm Connectors)



KPC100 (1 mm Connectors)



NOTE:

All dimensions are in millimeters.

(1) Usable upper limit frequency may be 72 GHz, however depends on a counterpart connector.

(2) 1 mm ports were measured for the measurement of return and insertion loss of the adapters with 1.85 mm ports mated as an interface.

Specifications Subject to Change Without Notice

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