

# 1.35 mm/1 mm DC - 90 GHz, Coaxial Adapters, Between-Series

## DESCRIPTION

"KPC135F100F, KPC135F100M, KPC135M100F, and KPC135M100M"

coaxial adapters between 1.35 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:

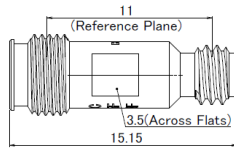
|                   |                            |
|-------------------|----------------------------|
| Frequency Range   | DC - 90 GHz                |
| SWR               | < 1.4 <sup>(1)</sup>       |
| Insertion Loss    | 1 dB (typ.) <sup>(1)</sup> |
| Electrical Length | 11.6 mm (Nominal)          |
| Temperature Range | -55 to +125 °C             |

### Mechanical:

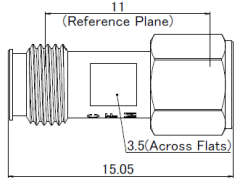
|                          |  |
|--------------------------|--|
| Body and Outer Conductor | Gold Plated Stainless Steel                                  |
| Inner Conductor          | Gold Plated Beryllium Copper and Brass                       |
| Coupling Torque          | 90 N-cm for KPC135 (Nominal)<br>45 N-cm for KPC100 (Nominal) |
| Connect/Disconnect Life  | > 500 Cycles (Estimate)                                      |



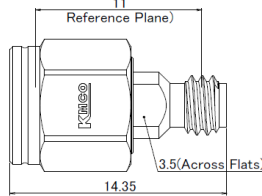
**TYPE: KPC135F100F**  
1.35 mm Female/1 mm Female



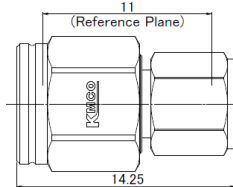
**TYPE: KPC135F100M**  
1.35 mm Female/1 mm Male



**TYPE: KPC135M100F**  
1.35 mm Male/1 mm Female



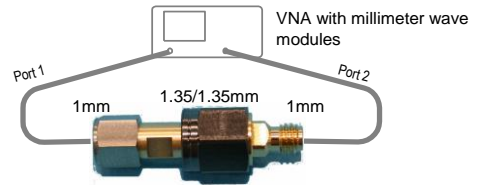
**TYPE: KPC135M100M**  
1.35 mm Male/1 mm Male



RoHS Compliant

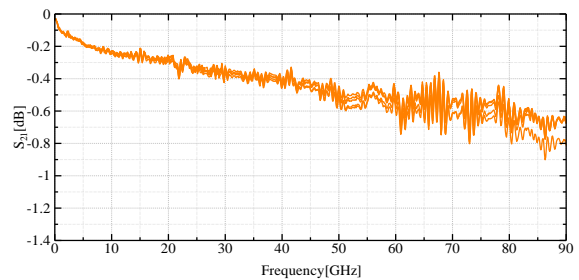
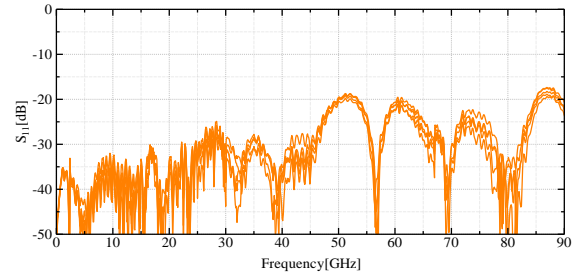
REACH Compliant

## Performance Test Configuration



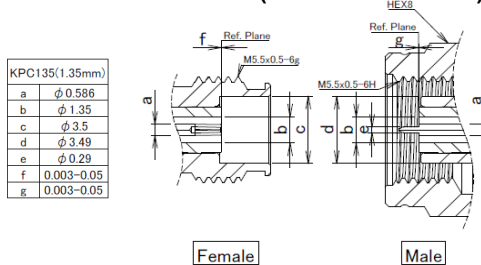
## Typical Performance

(Number of adapter-pair samples: 5 pcs)

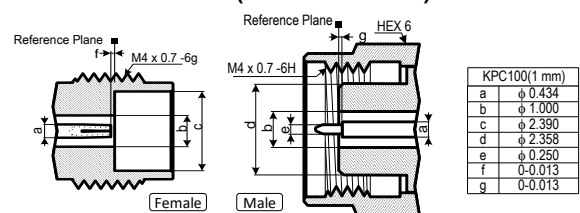


## Interface Mating Dimensions

### KPC135 (1.35 mm Connectors)



### KPC100 (1 mm Connectors)



### NOTE:

All dimensions are in millimeters.

(1) 1 mm ports were measured for the measurement of return and insertion loss of the adapters with 1.35 mm ports mated as an interface.