

This component kit enables you to design 40 GHz coaxial components and systems using the new Anritsu K Connector®. Included are parts and technical information you need to design high-quality interfaces with microminature 40 GHz devices.

The K Connector is mechanically and electrically compatible with SMA, APC-3.5®, and WSMA connectors. The typical performance of systems using these connectors is not degraded significantly by the addition of K Connectors. Only the K Connector, however, has guaranteed performance up to 40 GHz. An assembled connector and interface has a typical return loss of 18 dB at 40 GHz.

The connector uses a glass bead to provide transition from the microdevice to the connector itself. The use of a glass bead adds several features to the connector design:

- The bead provides a hermetic seal and mechanical isolation.
- The 0.30 mm diameter center conductor in the bead is small enough to make connection to microminature circuits.
- The connector assembly is easily replace in the field.

Please note that the male pin of the K Connector is shorter than that of lower frequency connectors. This design feature eliminates the pin damage that occurs during mating of other connectors whenever the male and female conductors are not perfectly aligned. This important advantage is achieved in the K Connector without degradation in performance.

The semirigid cable assemblies included in the kit have a microporous Teflon dielectric and a soft-copper center conductor, making the cable suitable for applications where sharp bends are required. The cables and connectors are assembled using standard techniques.

The kit also includes an assembled and tested 0.010 inch (0.254 mm) thick Alumina® microstrip through-line assembly.

This kit also includes the following Instruction Sheets:

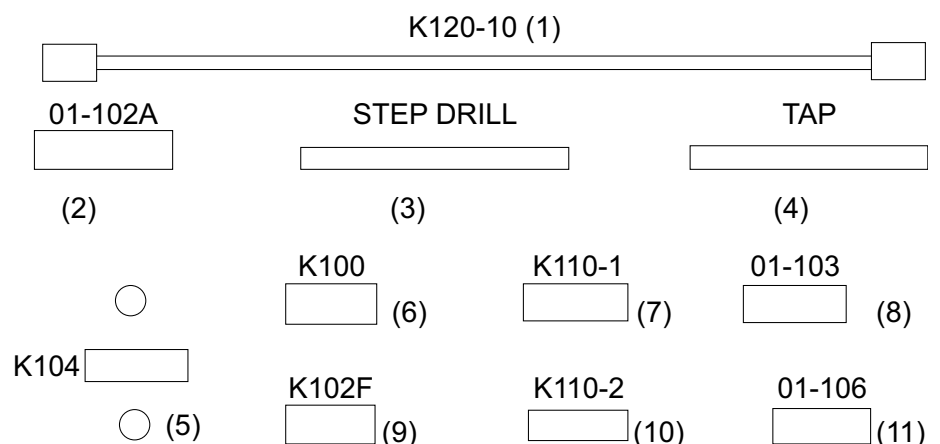
- K102F IS (10200-00018)
- K104F IS (10200-00028)
- K110-1/3 IS (10200-00032)
- K110-2 IS (10200-00033)
- 01-104 IS (10200-00004)
- 01-108 IS (10200-00038)

# Anritsu

## Model 01-101A Coaxial Components Evaluation Kit

Table 1. 01-101A Kit Contents

Item	Quantity	Description
1	1	K120-10, Cable Assembly, 10 inch
2	1	01-102A, Test Fixture, V Male
3 & 4	1	01-304, Step Drill and Tap
5	2	K104F, Flange-Mount V Connector Assembly
6	5	K100, Glass Beads
7	1	K110-1, Sliding Contacts for Microstrip
8	5	01-103, Holding Fixture, Glass Bead
9	1	K102F, Sparkplug K Connector Assembly
10	1	K110-2, Sliding Contacts for Stripline
11	1	Holding Fixture, Glass Bead



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 APC-3.5 is a registered trademark of Amphenol North America, a division of Bunker Ramo Corporation.  
 Alumina is a registered trademark of Aluminio Nacional S.A.

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