

This component kit enables you to design 65 GHz coaxial components and systems using the Anritsu V Connector®. Included are parts and technical information you need to design high-quality interfaces with micro-miniature 65 GHz devices.

The V Connector is mechanically and electrically compatible with 2.4 mm connectors. The typical performance of systems using these connectors is not degraded significantly by the addition of V Connectors. Only the V Connector, however, has guaranteed performance up to 60 GHz, and is usable up to 65 GHz. An assembled connector and interface has a typical return loss of 16 dB at 60 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 0.228 mm diameter center conductor in the bead is small enough to make connection to microminiature circuits.
- The connector assembly is easily replaced in the field.

The semi-rigid 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.

V Connectors are manufactured by Anritsu Company. Call for prices. Quantity discounts available.

Anritsu also offers a complete line of test equipment to measure the components and systems that use V Connectors.

The Anritsu Model 37XXX Series Vector Network Analyzer can make error corrected measurements from 40 MHz to 110 GHz in one continuous sweep.

This kit also includes the following Instruction Sheets:

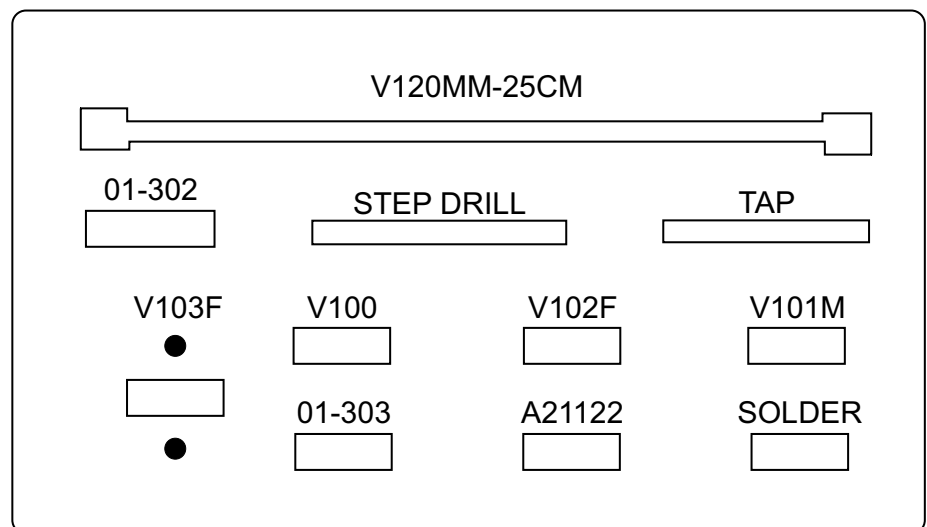
- V100 IS (10300-00001)
- V101M IS (10300-00005)
- V102F IS (10300-00007)
- K110-2 IS (10200-00033)
- V103F IS (10300-00011)
- 01-304 IS (10300-00019)

# Anritsu

## Model 01-301 65 GHz Coaxial Components Evaluation Kit

Table 1. 01-301 Kit Contents

Item	Quantity	Description
1	1	V120MM-25CM, Cable Assembly, 25 cm
2	1	01-302, Test Fixture, V Male
3 & 4	1	01-304, Step Drill and Tap
5	2	V103F, Flange-Mount V Connector Assembly
6	5	V100, Glass Beads
7	1	V102F, Sparkplug V Connector Assembly
8	5	V101M, V In-Line Connector
9	1	01-303, Holding Fixture, Glass Bead
10	1	A21122, V-F Install Fixture
11	-	Solder



V Connector is a registered trademark of Anritsu Company.  
Teflon is a registered trademark of E.I. Du Pont De Nemours and Company.

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