

**Part No. WCBA-WCA22229M.29MXXX**

**40GHz WCA222 Flexible Cable Assembly 2.92mm(M)-2.92mm(M)**



**Features:**

- Low Insertion Loss
- Excellent Phase Stability over Flexure



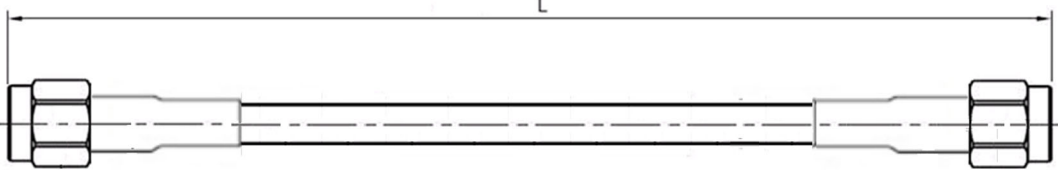
| WCA222 Raw Cable Electrical Specification |           |       |       |       |       |       |       |       |       |      |
|-------------------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Operating Frequency                       | 40GHz     |       |       |       |       |       |       |       |       |      |
| Frequency                                 | 3         | 6     | 8     | 10    | 12.4  | 14    | 18    | 26.5  | 40    | GHz  |
| Attenuation                               | 0.855     | 1.125 | 1.261 | 1.399 | 1.525 | 1.637 | 1.842 | 2.167 | 2.742 | dB/m |
| Power                                     | 285       | 194   | 170   | 151   | 132   | 126   | 111   | 88    | 71    | W    |
| Velocity of Propagation                   | 81%       |       |       |       |       |       |       |       |       |      |
| Shielding Effectiveness                   | 90dB Min. |       |       |       |       |       |       |       |       |      |
| Impedance                                 | 50 ohm    |       |       |       |       |       |       |       |       |      |
| Min. Static Bending Radius                | 17.0mm    |       |       |       |       |       |       |       |       |      |
| Min. Dynamic Bending Radius               | 37.0mm    |       |       |       |       |       |       |       |       |      |

| WCA222 Raw Cable Mechanical / Material Specification |                            |          |
|------------------------------------------------------|----------------------------|----------|
| Description                                          | Material                   | Diameter |
| Center Conductor                                     | Silver Plated Copper       | 0.91 mm  |
| Dielectric                                           | LD PTFE                    | 2.51 mm  |
| Outer Conductor                                      | Silver Plated Copper Strip | 2.67 mm  |
| Outer Braid                                          | Silver Plated Copper       | 3.13 mm  |
| Jacket                                               | FEP                        | 3.60 mm  |

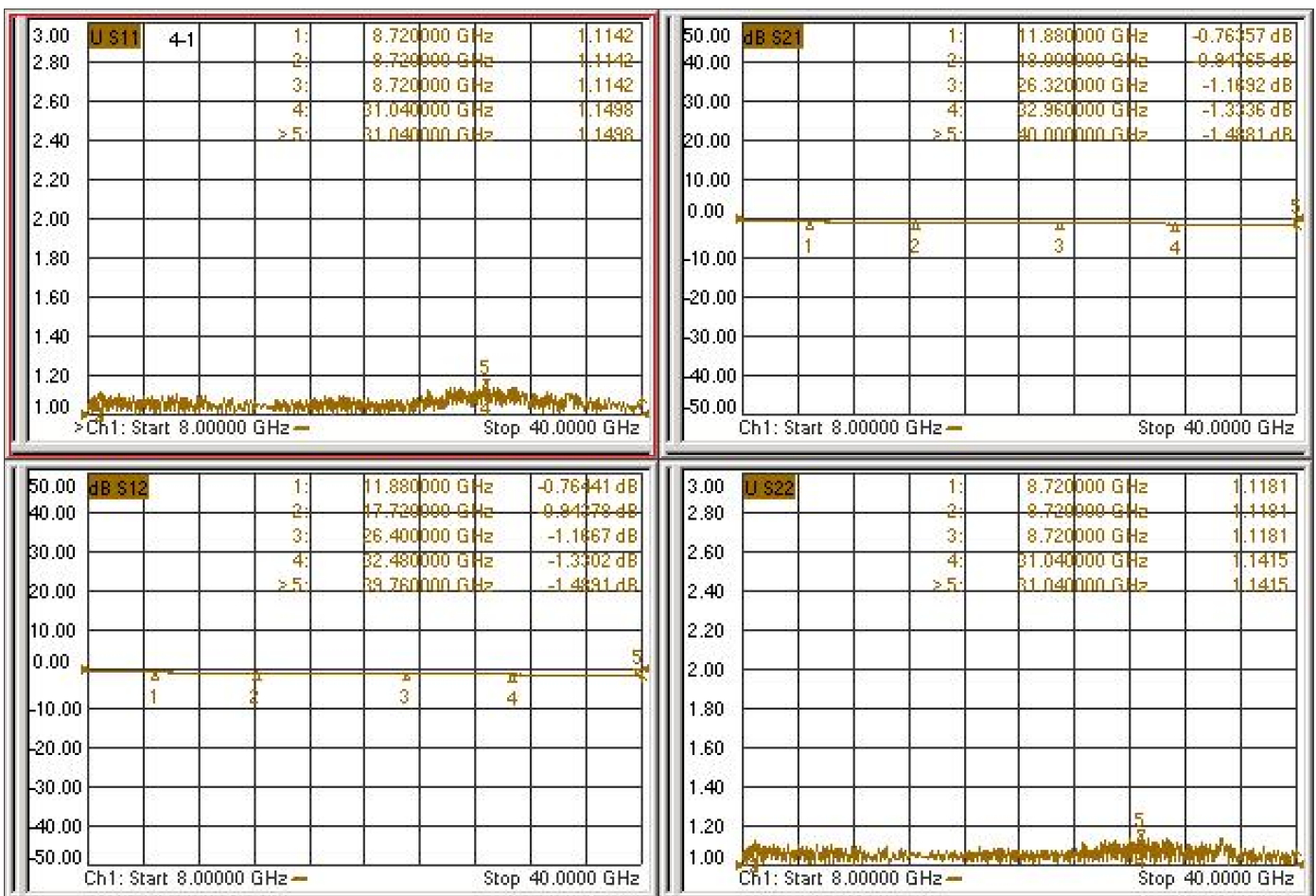
| WCA222 Raw Cable Environmental Specification |             |
|----------------------------------------------|-------------|
| Operating Temperature                        | -55 ~+165°C |

## Cable Assembly Specification

### 40GHz WCA222 Flexible Cable Assembly 2.92mm(M)-2.92mm(M)

|                                                                                                                   |                                                                                    |
|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Part No.                                                                                                          | WCBA-WCA22229M.29MXXX<br>(XXX:Length,Unit: Meters)                                 |
| Frequency                                                                                                         | 40GHz (max.)                                                                       |
| Connection 1                                                                                                      | 2.92mm Male                                                                        |
| Connection 2                                                                                                      | 2.92mm Male                                                                        |
| VSWR                                                                                                              | 1.25:1(Max.)                                                                       |
| Outline<br>(Unit: Meters)<br>Unless Otherwise Specified<br>Linearity Tolerance:<br>100~200mm:±8mm<br>>200mm:±1.5% |  |

## Test Curve



2.92mm(M)-2.92mm(M) 0.6M