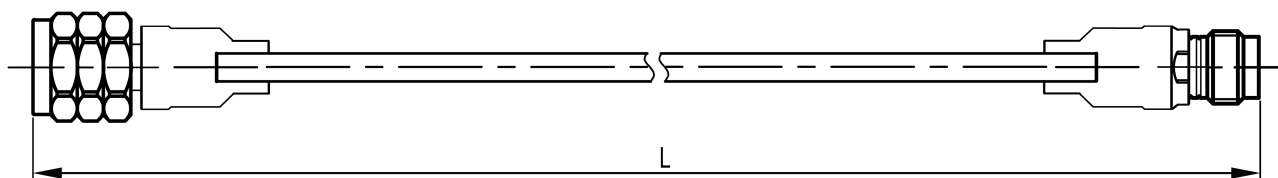




## Ultra-Low Loss Phase Stable Cable Assembly, RCA220-VMVF-L

### 1.85mm Male to 1.85mm Female, DC-67GHz, $\phi 2.2\text{mm}$

#### Dimensions(mm) Tolerance $\pm 1\%$



#### Electrical & Environmental

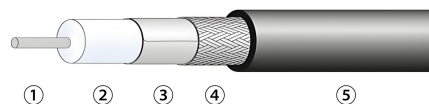
|                 |                    |
|-----------------|--------------------|
| Frequency Range | DC-67GHz, 50 Ohms  |
| Avg Power@25°C  | 7W @67GHz          |
| I L@1M          | 6.53 dB Max @67GHz |
| VSWR            | 1.35 Max           |
| Dk              | 1.49               |
| Capacitance     | 80 pF/m            |
| Inductance      | 0.21 uH/m          |
| VOP             | 81%                |
| SE              | 90dB Min           |
| Voltage         | 500V@DC            |
| Temp. Phase     | 750 PPM Max        |
| OT              | -40~+125°C         |

#### Product Information

|                    |                                            |
|--------------------|--------------------------------------------|
| Product Number     | RCA220-VMVF-L                              |
| Product Type       | Ultra-Low Loss Phase Stable Cable Assembly |
| Cable              | RCA220                                     |
| Connector          | 1.85mm Male to 1.85mm Female               |
| Connector Body     | Passivated stainless steel                 |
| Center Contact     | Gold plated beryllium copper               |
| Bend Radius        | 8.80mm                                     |
| Bend Radius (Rep.) | 22.00mm                                    |

Customized services: including connectors, length, phase matching/tracking, time delay, and better electrical performance.

#### RCA220 Structure Characteristics



| Structure          | Material                           | $\Phi\text{D}(\text{mm})$ |
|--------------------|------------------------------------|---------------------------|
| 1.Center Conductor | Single-core Silver-plated Copper   | 0.51                      |
| 2.Dielectric       | LD-PTFE                            | 1.38                      |
| 3.Inner shield     | Silver-plated Copper Tape Wrapping | 1.58                      |
| 4.Outer Shield     | Silver-plated Copper Wire Braiding | 1.90                      |
| 5.Jacket           | Gray FEP                           | 2.20                      |

#### Product Selection and Loss Index @25°C

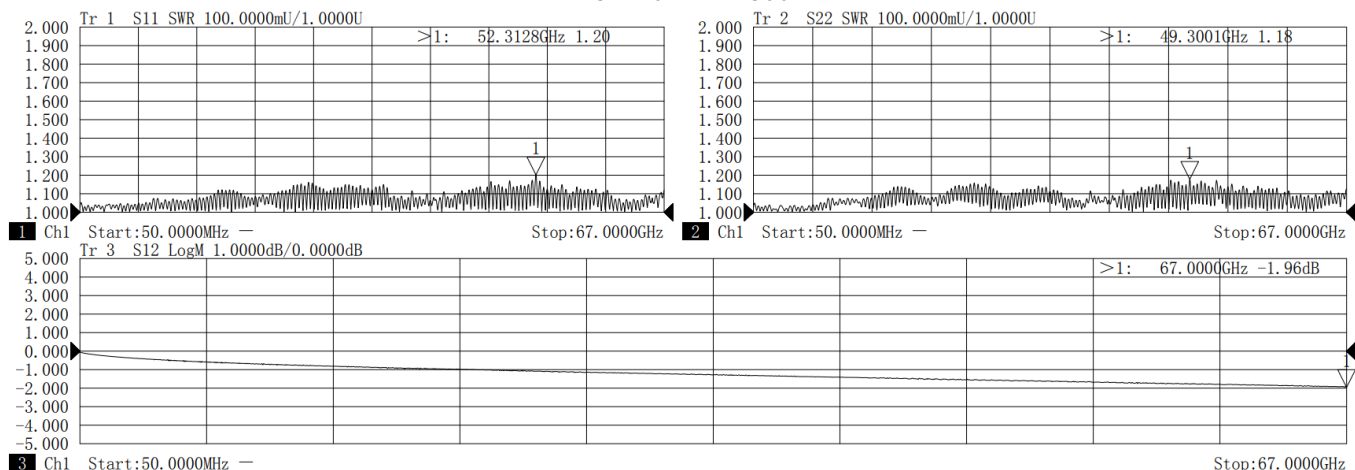
| RFTOP P/N        | 3GHz    | 35GHz   | 67GHz   |
|------------------|---------|---------|---------|
| RCA220-VMVF-100  | 0.71 dB | 1.01 dB | 1.19 dB |
| RCA220-VMVF-150  | 0.77 dB | 1.22 dB | 1.49 dB |
| RCA220-VMVF-200  | 0.82 dB | 1.42 dB | 1.79 dB |
| RCA220-VMVF-300  | 0.94 dB | 1.84 dB | 2.38 dB |
| RCA220-VMVF-600  | 1.27 dB | 3.07 dB | 4.16 dB |
| RCA220-VMVF-1M   | 1.72 dB | 4.72 dB | 6.53 dB |
| RCA220-VMVF-1.2M | 1.94 dB | 5.55 dB | 7.72 dB |



## Ultra-Low Loss Phase Stable Cable Assembly, **RCA220-VMVF-L** 1.85mm Male to 1.85mm Female, DC-67GHz, ø2.2mm

### Typical Test Data

#### RCA220-VMVF-300



#### RCA220-VMVF-1.2M

