



\* Label and Shrinking tube design depend on customer's request.

| <b>Configuration</b>             |                                    |
|----------------------------------|------------------------------------|
| Connector 1 Type                 | 1.85mm Female                      |
| Connector 1 Body Style           | Straight                           |
| Body Material and Plating        | Passivated Staindless Steel        |
| Connector 1 Mount Method         | 4 Hole Flange                      |
| Connector 2 Type                 | G3PO (SMPS) Female                 |
| Connector 2 Body Style           | Straight                           |
| Body Material and Plating        | CuBe Gold Plated                   |
| Connector 2 Mount Method         | None                               |
| Cable Type                       | 3506 Series                        |
| <b>Electrical Specifications</b> |                                    |
| Impedance                        | 50 $\Omega$                        |
| Frequency                        | DC to 67 GHz                       |
| Return Loss/VSWR                 | 10dB to 67 GHz                     |
| Phase Stability vs. Flexure      | N/A                                |
| Amplitude Stability              | N/A                                |
| Shielding Effectiveness          | <-100dB @ 1GHz                     |
| Phase Matching                   | On request                         |
| Signal Delay                     | On request                         |
| Power Handling                   | 90watt @ 2GHz at sea level,VSWR1.0 |
| <b>Environmental Data</b>        |                                    |
| Temperature Range                | -40°C to +165°C                    |
| 2002/95/EC(RoHS)                 | Compliant                          |

### Cable Specifications

|                            |                      |
|----------------------------|----------------------|
| Center Conductor           | Silver plated copper |
| Dielectric                 | ePTFE                |
| Jacket                     | FEP                  |
| Capacitance(pF/m)          | 94                   |
| Velocity of propagation(%) | 82                   |
| Min. bending radius(mm)    | 6                    |
| Jacket Diameter(mm)        | 2.2                  |

### Part Number List

| Part Number         | Length [mm] | Insertion Loss ≤(dB) |       |       |       |
|---------------------|-------------|----------------------|-------|-------|-------|
|                     |             | 5GHz                 | 10GHz | 20GHz | 40GHz |
| GAU2-185FFG3PF-1000 | 1000±10     | 1.7                  | 2.5   | 3.62  | 5.32  |
| GAU2-185FFG3PF-800  | 800±8       | 1.4                  | 2.06  | 3.04  | 4.42  |
| GAU2-185FFG3PF-600  | 600±6       | 1.09                 | 1.64  | 2.36  | 3.46  |
| GAU2-185FFG3PF-500  | 500±5       | 0.95                 | 1.38  | 2.05  | 2.98  |
| GAU2-185FFG3PF-300  | 300±5       | 0.65                 | 0.96  | 1.39  | 2.06  |
| GAU2-185FFG3PF-260  | 260±5       | 0.59                 | 0.87  | 1.25  | 1.92  |
| GAU2-185FFG3PF-200  | 200±5       | 0.51                 | 0.74  | 1.12  | 1.54  |
| GAU2-185FFG3PF-100  | 100±5       | 0.35                 | 0.52  | 0.73  | 1.12  |

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