

GAU1-292M292M-XXX 2.96 mm (M) to 2.96 mm (M) 40 GHz RF Cable

Technical Specification V1.00

Nov., 2015



 **UC INSTRUMENTS CORP.**

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GAU1-292M292M-XXX 40 GHz RF Cable

UCINSTRUMENTS GAU1-292M292M-XXX 147A SERIES, FLEXIBLE CABLE
2.92MM(MALE)- 2.92MM(MALE)

Specification

| Configuration | |
|----------------------------------|-----------------------------------|
| Connector 1 Type | 2.92mm Male |
| Connector 1 Body Style | Straight |
| Body Material and Plating | Passivated Staindless Steel |
| Connector 1 Mount Method | None |
| Connector 2 Type | 2.92mm Male |
| Connector 2 Body Style | Straight |
| Body Material and Plating | Passivated Staindless Steel |
| Connector 2 Mount Method | None |
| Cable Type 147A Series | |
| Electrical Specifications | |
| Impedance | 50 W |
| Frequency | DC to 40 GHz |
| Return Loss/VSWR | 1.44 to 40 GHz |
| Phase Stability vs. Flexure | 5°@ 18GHz |
| Amplitude Stability | N/A |
| Shielding Effectiveness | <-100dB @ 1GHz |
| Phase Matching | On Request |
| Signal Delay | On Request |
| Power Handling | 220Watt @ 5GHz at Sea Level,VSWR1 |
| | |
| Environmental Data | |
| Temperature Range | -40°C to +165°C |
| 2002/95/EC(RoHS) | Compliant |

Part Number List

| PN | Length | Insertion Loss (dB) | | | |
|---------------------|-----------|---------------------|-------|---------|-------|
| | | 10 Ghz | 18Ghz | 26.5GHz | 40GHz |
| GAU1-292M292M-20000 | 20000±100 | 25.98 | 36.06 | 44.96 | 57.18 |
| GAU1-292M292M-10000 | 10000±100 | 13.2 | 18.3 | 22.8 | 28.9 |
| GAU1-292M292M-8000 | 8000±30 | 10.56 | 14.65 | 18.3 | 23.2 |
| GAU1-292M292M-3000 | 3000±30 | 4.14 | 5.75 | 7.14 | 9.06 |
| GAU1-292M292M-2500 | 2500±20 | 3.49 | 4.85 | 6.03 | 7.65 |
| GAU1-292M292M-2000 | 2000±20 | 2.85 | 3.95 | 4.92 | 6.23 |
| GAU1-292M292M-1500 | 1500±15 | 2.22 | 3.06 | 3.81 | 4.82 |
| GAU1-292M292M-1200 | 1200±12 | 1.83 | 2.54 | 3.14 | 3.97 |
| GAU1-292M292M-1000 | 1000±10 | 1.57 | 2.17 | 2.69 | 3.41 |
| GAU1-292M292M-600 | 600±10 | 1.06 | 1.46 | 1.82 | 2.27 |
| GAU1-292M292M-500 | 500±10 | 0.93 | 1.28 | 1.58 | 1.99 |

Cable Specifications

| | |
|--|----------------------|
| Center Conductor | Silver plated copper |
| Dielectric | Low Density PTFE |
| Jacket | FEP |
| Capacitance(pF/m) | 86 |
| Velocity of propagation(%) | 77 |
| Min. bending radius(mm) | 6.35 |
| Jacket Diameter(mm) | 3.73 |
| <p>While the information has been carefully compiled to the best of our knowledge, nothing is intended as representaton our part and no statement herein shall be construed as products, we reserve the right to make changes judged to be necessary. recommendation to infringe existing patents. In the eimprove our</p> | |

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Nov., 2015

72000022 V1.00