![Siretta - Enabling Industrial IoT]

Siretta coax pigtail assemblies are made from high quality components and assembly methods to control VSWR and Return Loss. Two cable types are available, the smaller and more flexible 1.13mm and standard RG174. Selection is somewhat dependent on length and consequentially, attenuation. Various connector types can be chosen to suit: PCB mount, case mount or free movement types.  PCB types are IPEX brand connectors;  chosen for their reliability and are compatible with uFL connectors.

**Custom cable assemblies to suit your application and manufacturing needs can be quoted for volume orders.**
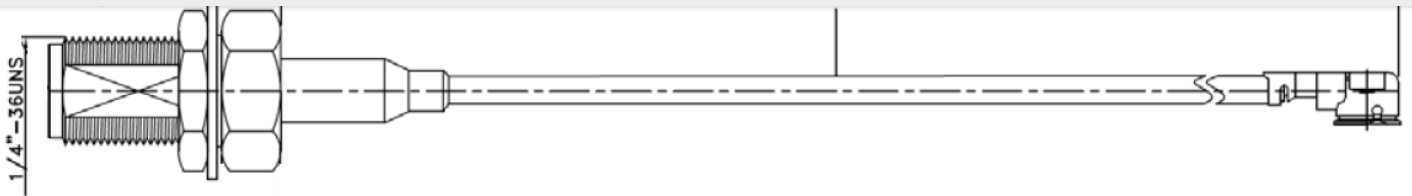
## 1.13mm Pigtails

The 1.13mm coax pigtail assemblies can be made from 50mm to 300mm. Custom lengths and alternative connectors can be used for volume orders.

| Nominal Impedance | | | | | 50 Ohm | |
|---|---|---|---|---|---|---|
| Nominal Capacitance | | | | | 96pf/m | |
| Nom. Velocity of Propagation | | | | | 69% | |
| Attenuation dB/m | 1GHz | 2GHz | 3GHz | 4GHz | 5GHz | 6GHz |
| | 2.0 | 2.9 | 3.6 | 4.2 | 4.7 | 5.2 |
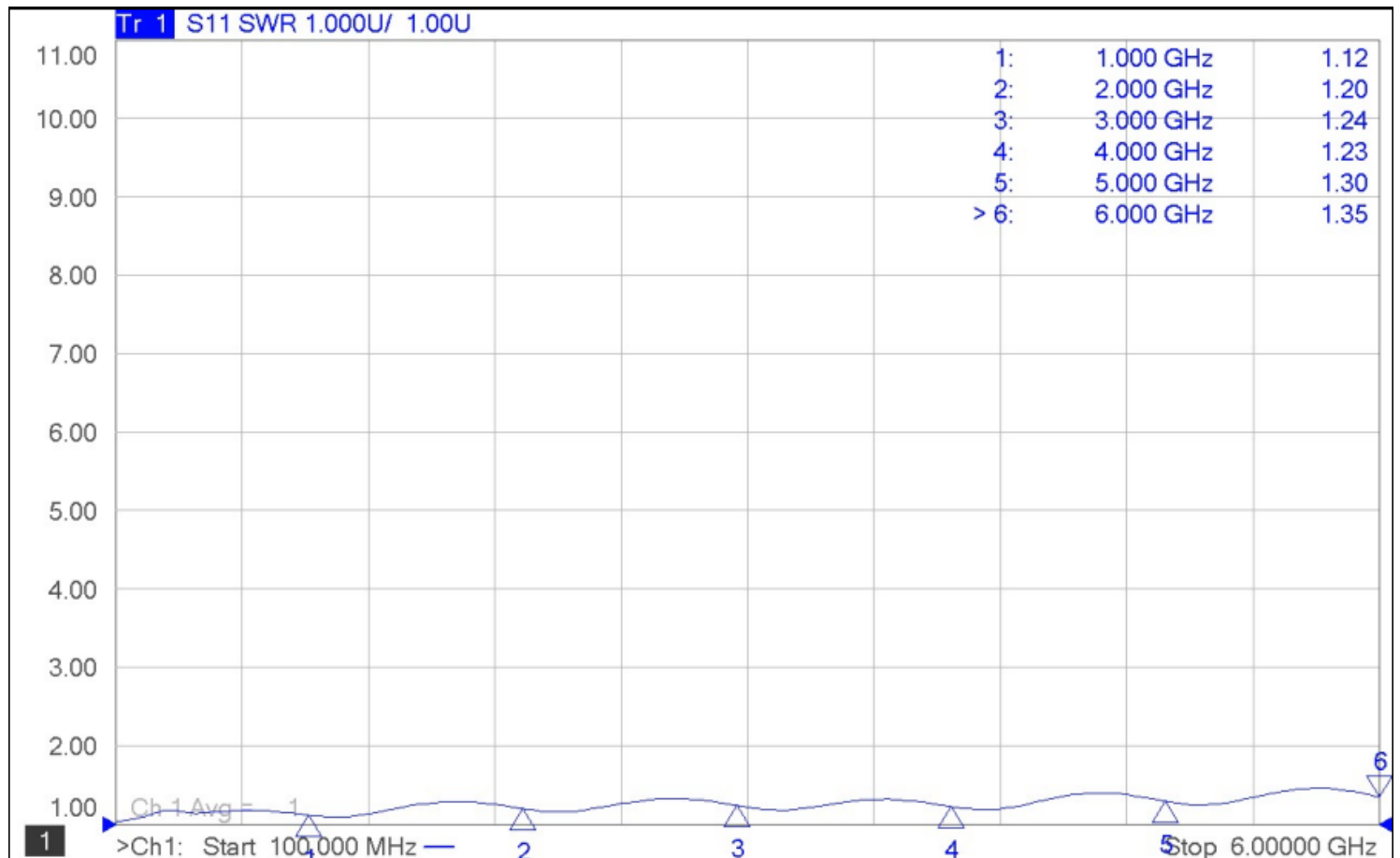
Standard Parts

## VSWR



| Tr 1 | S11 SWR 1.000U/ 1.00U |
| --- | --- |
| 1: | 1.000 GHz | 1.12 |
| 2: | 2.000 GHz | 1.20 |
| 3: | 3.000 GHz | 1.24 |
| 4: | 4.000 GHz | 1.23 |
| 5: | 5.000 GHz | 1.30 |
| > 6: | 6.000 GHz | 1.35 |

>Ch1: Start 100.000 MHz    Stop 6.00000 GHz

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## Attenuation



| | | |
|---|---|---|
| 1: | 1.000 GHz | -0.35 dB |
| 2: | 2.000 GHz | -0.49 dB |
| 3: | 3.000 GHz | -0.59 dB |
| 4: | 4.000 GHz | -0.65 dB |
| 5: | 5.000 GHz | -0.75 dB |
| > 6: | 6.000 GHz | -0.82 dB |

Tr 1  S21 LogM 5.000dB/  0.00dB

Ch 1 Avg = 1

>Ch1:  Start  100.000 MHz —          Stop  6.00000 GH

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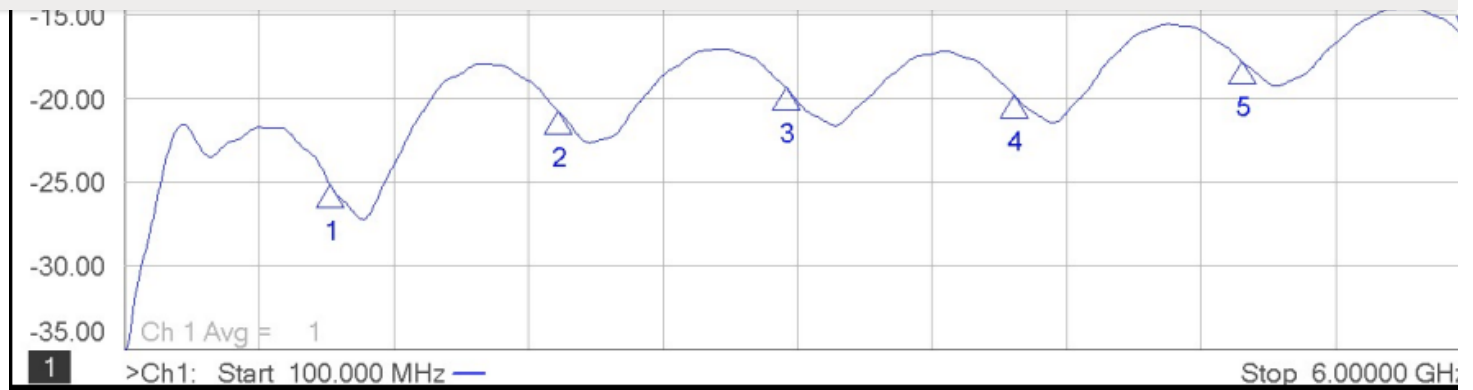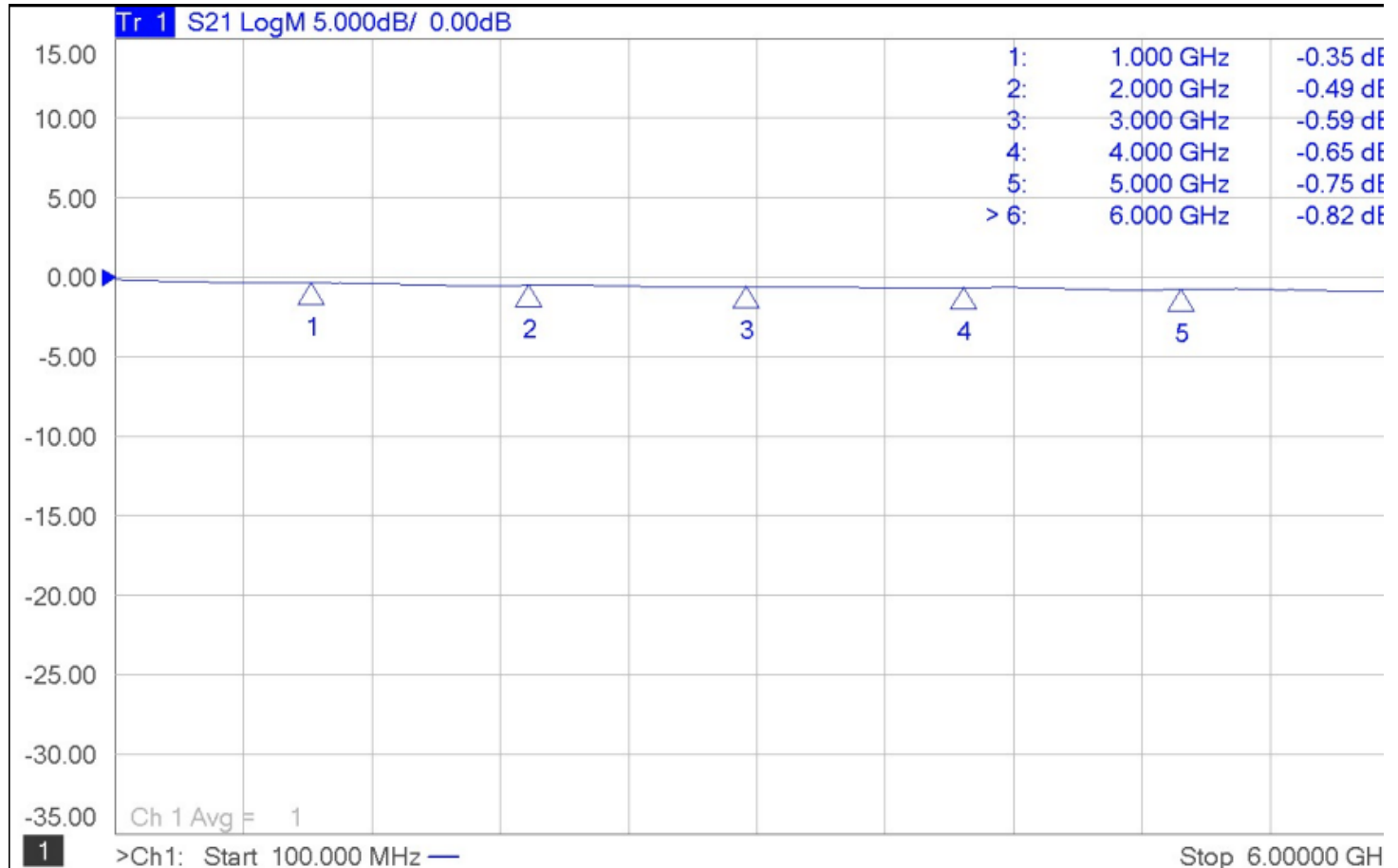
| Attenuation dB/100m | 27.6 | 41.0 | 62.3 | 88.6 | 101.8 |
|---|---|---|---|---|---|



(Temp Drawing)
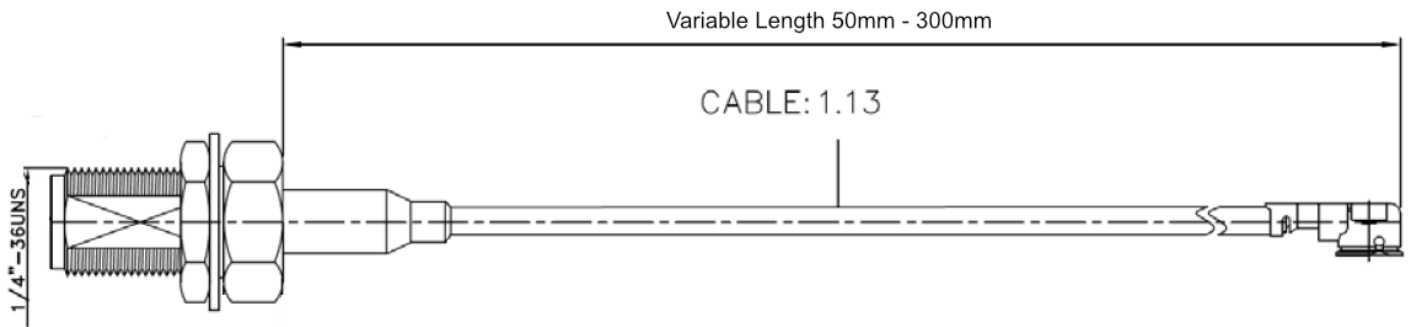


*SMA Female Bulkhead Connector to MMCX Connector example drawing*

Standard Parts

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