

**Product Features**

P1CA-SAMSAM-SS141-4 is an test Cable that is part of P1dB's SS141 series, high performance cable assemblies. It is a 4 inch SMA Male to SMA Male cable assembly that utilizes SS141 High Performance coax, which is 0.163 inches in diameter. The SS141 test cable operates to 27 GHz with a max VSWR of 1.3:1. P1dB's SS141 cable assemblies are general purpose test cables that are dimensionally equivalent to RG402 semi-rigid and 141 conformable coax cables and RG402 electrical specifications. SS141 test cables can operate up to 40 GHz, depending on the installed connectors. The advantage of SS141 test cables over other test cables are their cost-effective design that still offer good phase and amplitude stability for general purpose test systems.



**Electrical Specification: T<sub>Ambient</sub> = 25° C**

| Parameter               | Frequency Range | Units  | Min | Typical | Max  | Notes |
|-------------------------|-----------------|--------|-----|---------|------|-------|
| Frequency Range         |                 | GHz    | DC  |         | 27.0 |       |
| VSWR                    | DC to 1.0       | 1:     |     |         | 1.1  |       |
|                         | 1.0 to 10.0     |        |     |         | 1.2  |       |
|                         | 10.0 to 18.0    |        |     |         | 1.25 |       |
|                         | 18.0 to 27.0    |        |     |         | 1.3  |       |
| Insertion Loss          | DC to 1.0       | dB/ft. |     |         | 0.13 |       |
|                         | 1.0 to 10.0     |        |     |         | 0.45 |       |
|                         | 10.0 to 18.0    |        |     |         | 0.64 |       |
|                         | 18.0 to 27.0    |        |     |         | 0.88 |       |
| Velocity Of Propagation |                 | %      |     | 70.0    |      |       |

**Mechanical And Environmental Specifications:**

| Parameter                | Description                | Notes |
|--------------------------|----------------------------|-------|
| Connector 1              | SMA Male                   |       |
| Connector 1 Coupling Nut | Passivated Stainless Steel |       |
| Connector 1 Body         | Passivated Stainless Steel |       |
| Connector 1 Contact      | Gold Plated Brass          |       |
| Connector 2              | SMA Male                   |       |
| Connector 2 Coupling Nut | Passivated Stainless Steel |       |
| Connector 2 Body         | Passivated Stainless Steel |       |
| Connector 2 Contact      | Gold Plated Brass          |       |
| Coax Cable               | High Performance           |       |
| Cable Type               | SS141                      |       |
| Cable Inner Conductor    | SPC                        |       |
| Dielectric               | PTFE                       |       |
| Shield                   | 1. SPC Braid, SPC Ribbon   |       |
| Jacket                   | FEP                        |       |
| Coax Diameter            | 0.163                      |       |

SMA Male to SMA Male test cable using SS141 High Performance Coax, 4 inches long,  
Operating to 27 GHz.

| Parameter             | Description       | Notes |
|-----------------------|-------------------|-------|
| Minimum Bend Radius   | 0.08              |       |
| Length                | 4.0               |       |
| Operating Temperature | -55.0 to 125.0 °C |       |
| RoHS Compliance       | Yes               |       |

## Product Notes