

P1CA-29M29M-SS085-60-PM

Phase matched cable assemblies, 2.92mm male to 2.92mm male connectors operating to 40 GHz. Length 60 inch. Phase matched +/- 5 degrees at 18 GHz. Supplied as a phase matched pair (2 cables). Price is per cable. Typical lead time is 4 weeks. Contact P1dB if you require a larger quantity of cables as a phase matched set.

Product Features

P1dB's P1CA-29M29M-SS085-60-PM is a 50 Ohm RF cable assembly, Supplied as a phase matched pair (2 cables). Price is per cable. Typical lead time is 4 weeks. Contact P1dB if you require a larger quantity of cables as a phase matched set.

It is a 2.92mm male to 2.92mm male cable using P1dB's SS085 flex coax which is a phase stable RF cable with 0.104 inch (2.6mm) outer diameter. The cable is 60 inches long and the cables are phase matched to 5 degrees measured at 18 GHz. Operating to 40 GHz, the P1CA-29M29M-SS085-60-PM is a low loss flex cable with a minimum bend radius of 0.25 inch. Maximum VSWR to 40 GHz is 1.45.



Electrical Specification: T_{Ambient} = 25° C

| Parameter | Frequency Range | Units | Min | Typical | Max | Notes |
|-------------------------|-----------------|--------|-----|---------|------|-------|
| Frequency Range | | GHz | DC | | 40.0 | |
| VSWR | DC to 1.0 | 1: | | | 1.2 | |
| | 1.0 to 18.0 | | | | 1.25 | |
| | 18.0 to 30.0 | | | | 1.35 | |
| | 30.0 to 40.0 | | | | 1.45 | |
| Insertion Loss | DC to 1.0 | dB/ft. | | | 0.25 | |
| | 1.0 to 18.0 | | | | 1.1 | |
| | 18.0 to 30.0 | | | | 1.5 | |
| | 30.0 to 40.0 | | | | 1.9 | |
| Velocity Of Propagation | | % | | 70.0 | | |

Mechanical And Environmental Specifications:

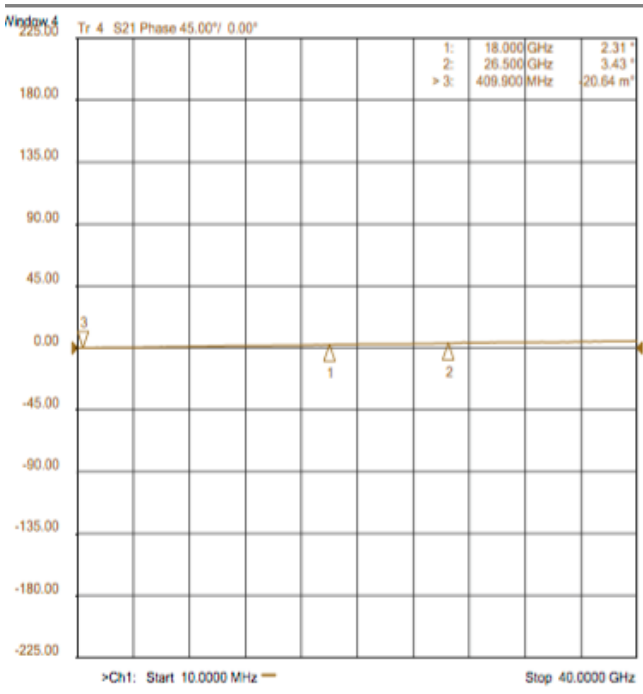
| Parameter | Description | Notes |
|--------------------------|----------------------------|-------|
| Connector 1 | 2.92mm Male | |
| Connector 1 Coupling Nut | Passivated Stainless Steel | |
| Connector 1 Body | Passivated Stainless Steel | |
| Connector 1 Contact | Gold Plated Brass | |
| Connector 2 | 2.92mm Male | |

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| Parameter | Description | Notes |
|--------------------------|------------------------------|-------|
| Connector 2 Coupling Nut | Passivated Stainless Steel | |
| Connector 2 Body | Passivated Stainless Steel | |
| Connector 2 Contact | Gold Plated Beryllium Copper | |
| Coax Cable | High Performance | |
| Cable Type | SS085 | |
| Cable Inner Conductor | SPC | |
| Dielectric | PTFE | |
| Shield | 1. SPC Ribbon | |
| | 2. SPC Braid | |
| Jacket | FEP | |
| Coax Diameter | 0.104 | |
| Minimum Bend Radius | 0.25 | |
| Length | 60.0 | |
| Operating Temperature | -55.0 to 125.0 °C | |
| RoHS Compliance | Yes | |

Drawing



Graph

P1dB, Inc.

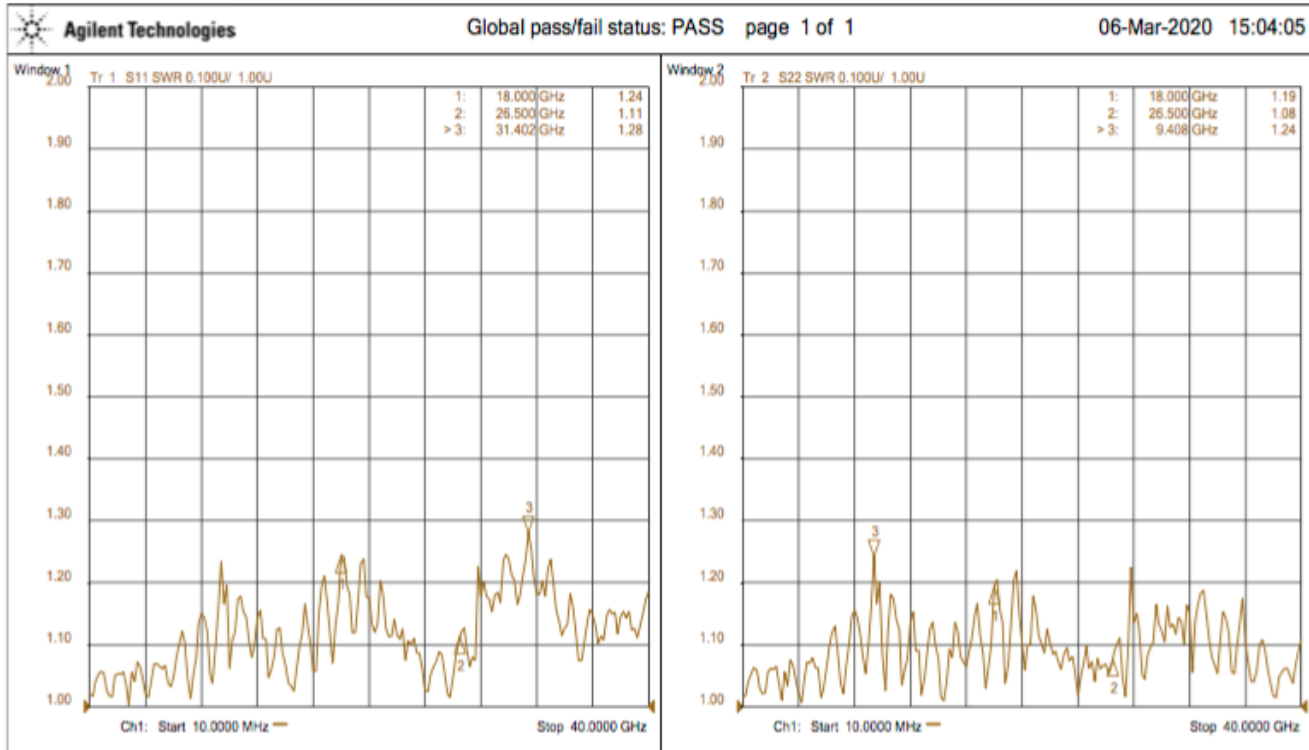
188 Martinvale Lane, San Jose, CA 95119

+1(408)613-4857

sales@p1dB.com

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Product Notes