P1CA-29M29M-SS085-24-PM

Phase matched cable assemblies, 2.92mm male to 2.92mm male connectors operating to 40 GHz. Length 24 inch. Phase matched +/- 5 degrees at 18 GHz. Supplied as phase matched pairs (2). Priced per cable. Test data included.

Product Features

P1dB's P1CA-29M29M-SS085-24-PM is a 50 Ohm RF cable assembly, supplied as TBD # of phase matched cables. 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 24 inches long and the cables are phase matched to +/- 4 degrees measured at 18 GHz. Operating to 40 GHz, the P1CA-29M29M-SS085-1M-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	

P1dB, Inc. 188 Martinvale Lane, San Jose, CA 95119 +1(408)613-4857

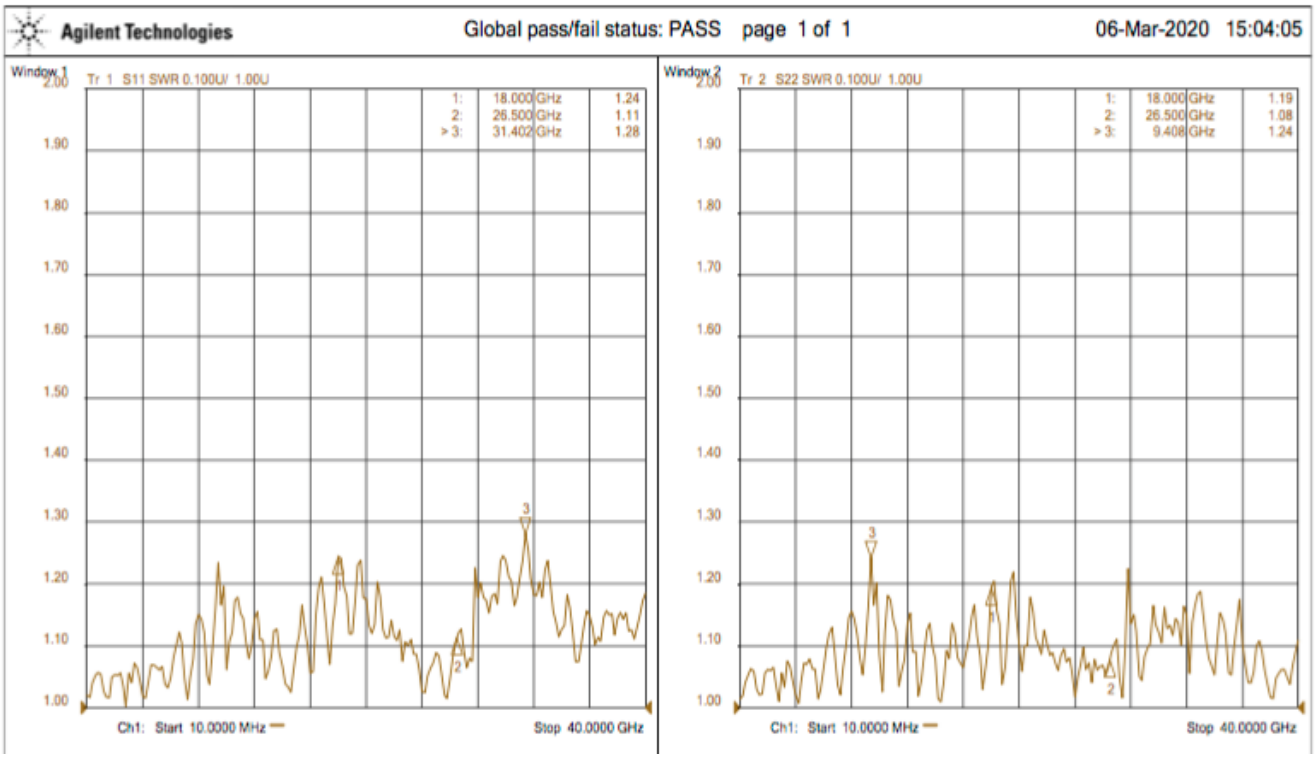
sales@p1dB.com

P1CA-29M29M-SS085-24-PM

Phase matched cable assemblies, 2.92mm male to 2.92mm male connectors operating to 40 GHz. Length 24 inch. Phase matched +/- 5 degrees at 18 GHz. Supplied as phase matched pairs (2). Priced per cable. Test data included.

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	Phase Matched	
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	24.0	
Operating Temprature	-55.0 to 125.0 °C	
RoHS Compliance	Yes	

Drawing



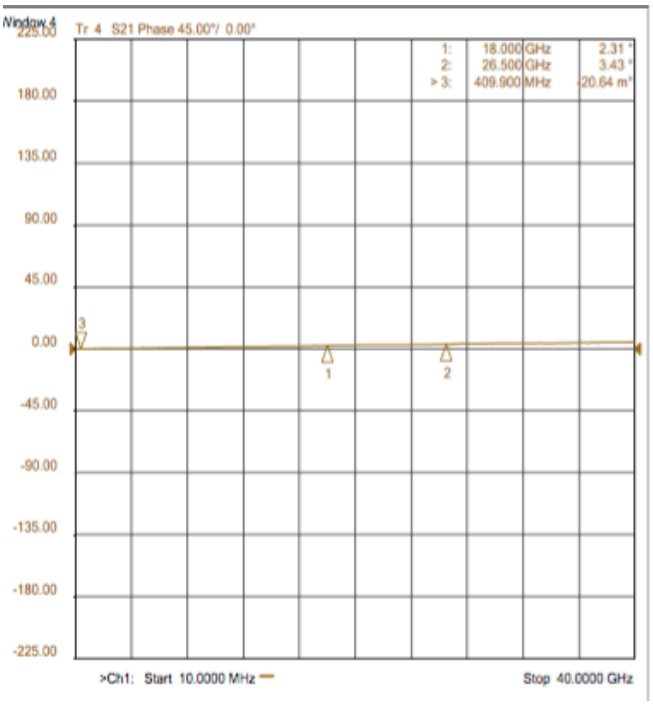
P1dB, Inc. 188 Martinvale Lane, San Jose, CA 95119 +1(408)613-4857

sales@p1dB.com

P1CA-29M29M-SS085-24-PM

Phase matched cable assemblies, 2.92mm male to 2.92mm male connectors operating to 40 GHz. Length 24 inch. Phase matched +/- 5 degrees at 18 GHz. Supplied as phase matched pairs (2). Priced per cable. Test data included.

Graph



Product Notes

P1dB, Inc. 188 Martinvale Lane, San Jose, CA 95119 +1(408)613-4857

sales@p1dB.com