P1CA-SAMSAM-SS141-1M-PM

RF cable assembly, SMA Male to SMA Male, SS141 flexible coaxial cable, 1 meter. Supplied as a phase matched pair (2 cables). Price is per cable, minimum order 2 cables. Sold in multiples of 2 (2,4,6, etc.). Phase matched +/- 5 degrees at 10 GHz, operating to 18 GHz. Test data included. Contact P1dB for matched sets > quantity 2.

Product Features

P1dB's P1CA-SAMSAM-SS141-1M-PM is a 50 Ohm RF cable assembly, supplied as TBD # of phase matched cables. It is an SMA male to SMA male cable using P1dB's SS141 flex coax which is a phase stable RF cable with 0.160 inch (4mm) outer diameter. The cable is 1 meter long and the cables are phase matched to 5 degrees measured at 10 GHz. Operating to 18 GHz, the P1CA-SAMSAM-SS141-1M-PM is a low loss flex cable with a minimum bend radius of 0.8 inches. Maximum VSWR to 18 GHz is 1.25.



Electrical Specification: $T_{Ambient}$ = 25° C

Parameter	Frequency Range	Units	Min	Typical	Max	Notes
Frequency Range		GHz	DC		18.0	
VSWR	DC to 1.0	1:			1.1	
	1.0 to 10.0				1.2	
	10.0 to 18.0				1.25	
Insertion Loss	DC to 1.0	dB/ft.			0.15	
	1.0 to 10.0				0.45	
	10.0 to 18.0				0.64	
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	

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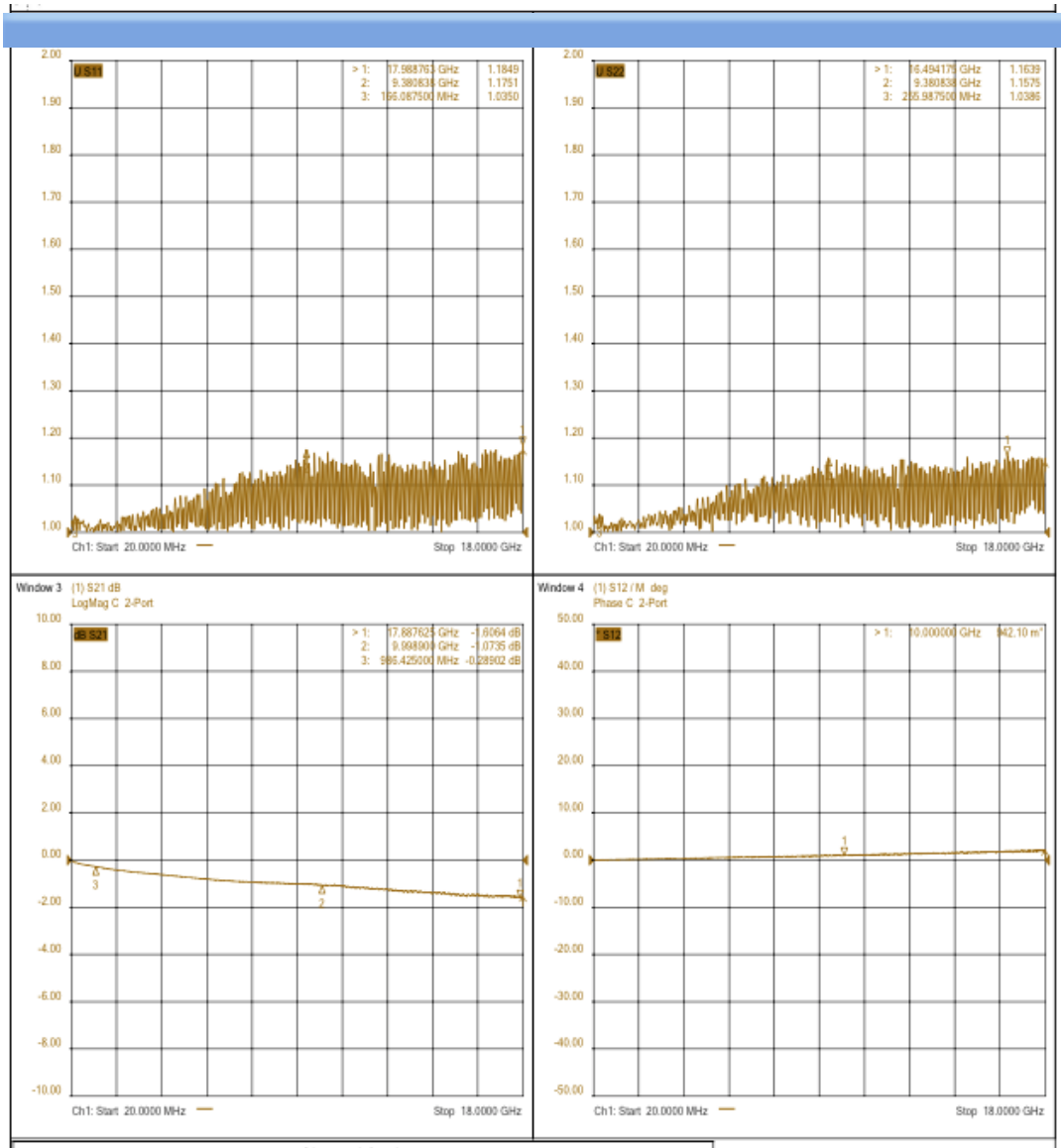
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		Notes
Connector 2 Contact	Gold Plated Brass	
Coax Cable	High Performance	
Cable Type	SS141	
Cable Inner Conductor	SPC	
Dielectric	PTFE	
Shield	1. SPC Braid, SPC Ribbon	
Jacket	FEP	
Coax Diameter	0.163	
Minimum Bend Radius	0.8	
Operating Temprature	-55.0 to 125.0 °C	
RoHS Compliance	Yes	

Graph

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Channel Settings

Channel	Sweep Type	Points	Start (MHz)	Stop (GHz)	IF BW (kHz)	Sweep Time (s)	Pow 1 (dBm)	Pow 2 (dBm)
1	LinFreq	1601	20.000000	18.000000	10.000000	1.000000	0.000000	0.000000

Trace Attributes

Window	ID	Trace	Channel	Correction	Options	Marker	Position	Response
1	1	S11	1	C 2-Port		1	17988.763 MHz	1.1848
						2	9380.8375 MHz	1.1751
						3	166.0875 MHz	1.0348
2	1	S22	1	C 2-Port		1	16494.175 MHz	1.1642
						2	9380.8375 MHz	1.1577
						3	255.9875 MHz	1.0385
3	1	S21	1	C 2-Port		1	17741.537 MHz	-1.6084 dB
						2	9864.05 MHz	-1.0683 dB
						3	997.6625 MHz	-0.29082 dB
4	1	S12 / M	1	C 2-Port		1	10000 MHz	917.08 m°

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