



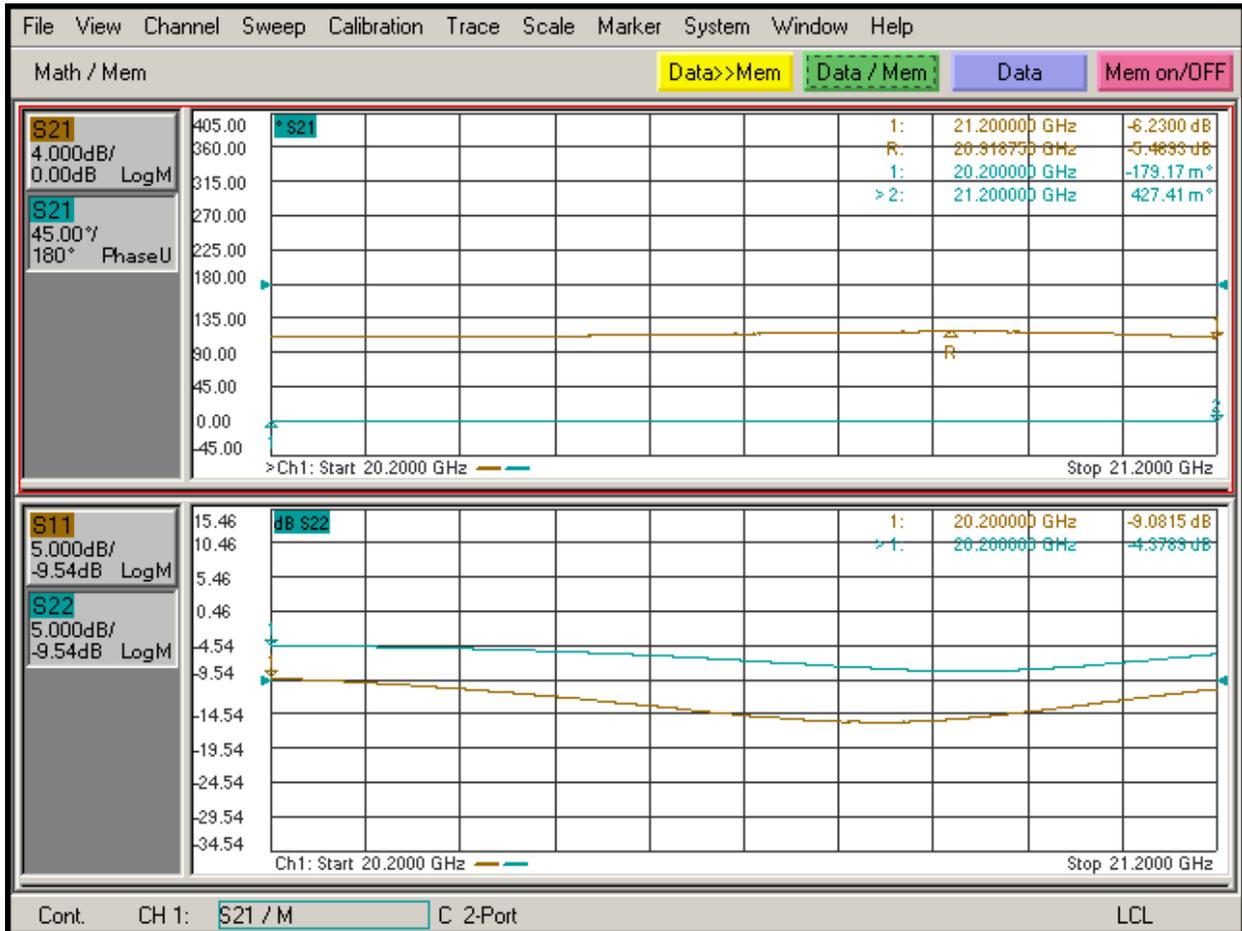
Planar Monolithics Industries, Inc.
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Prototype Coupler Characteristics For MPC-20R2G21R2G-CD-LNF



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Ringline Coupler (Input A to Sum Port Normalized)

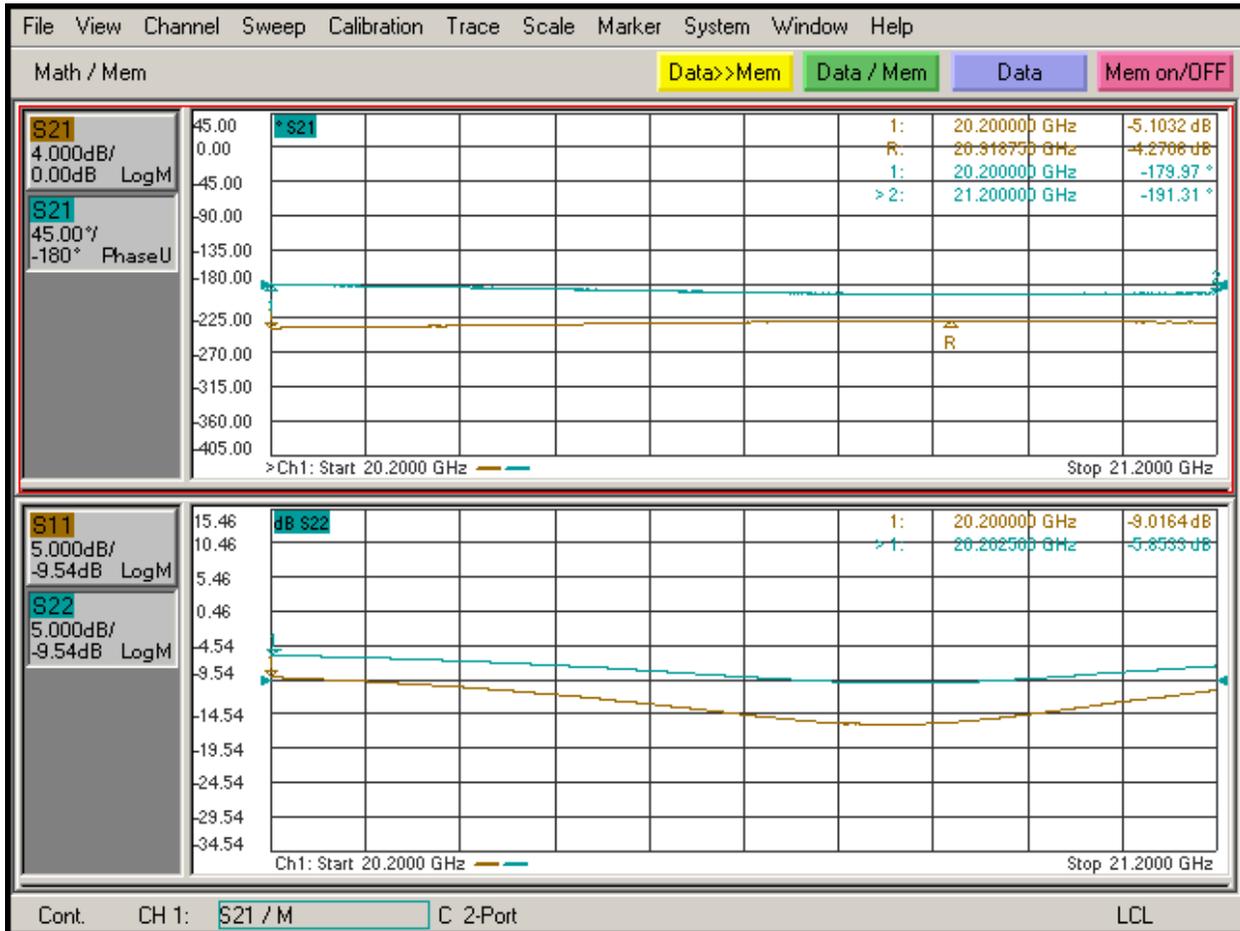


Scale shown on top is in degrees. Phase was normalized to show 0 degrees. Insertion Loss scale is 4 dB / division and is represented by the brown trace. (Min is 5.5 dB and Max is 6.2 dB)



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Ringline Coupler (Input A to Delta Port)

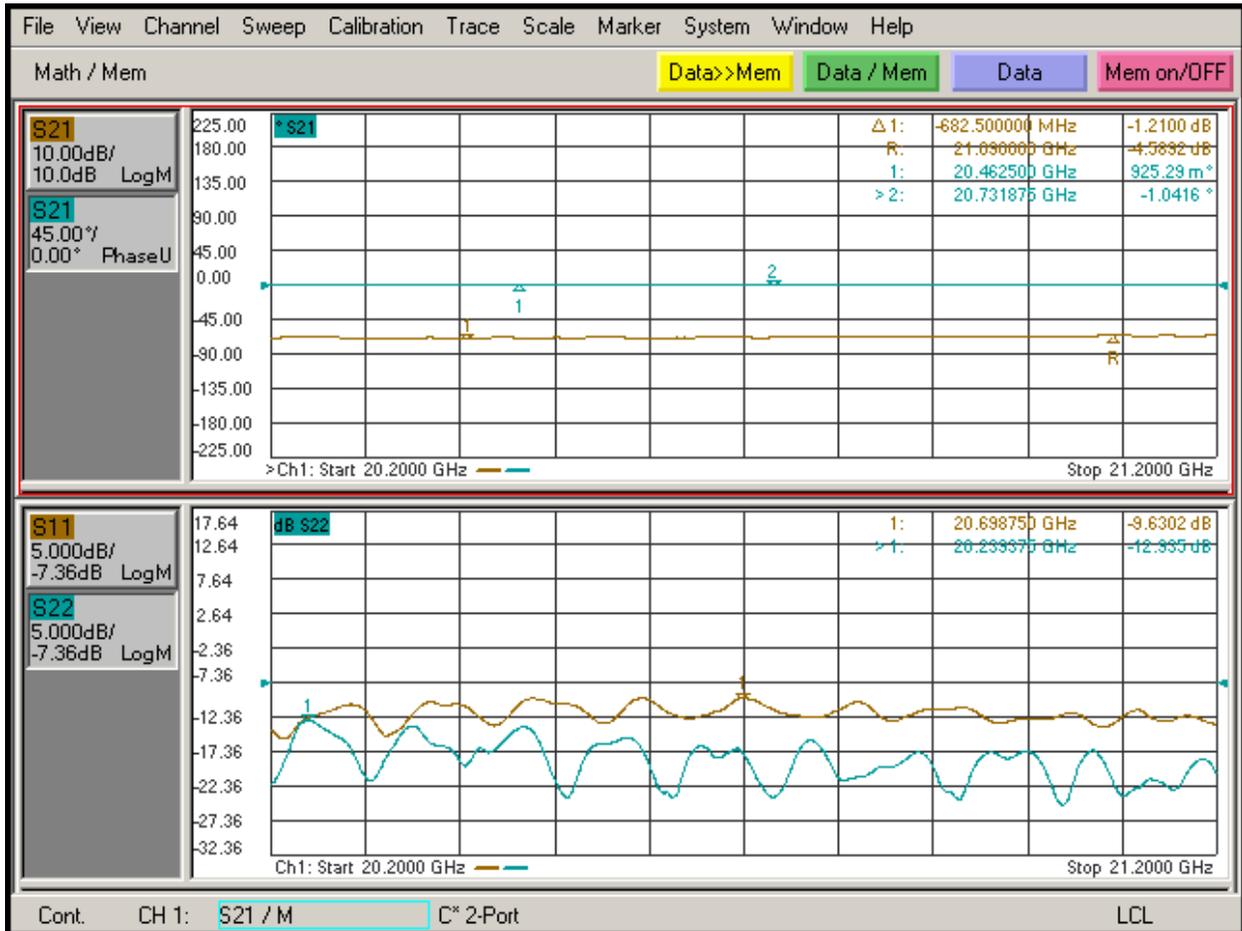


Scale shown on top is in degrees. Phase markers show min and max. Insertion Loss scale is 4 dB / division and is represented by the brown trace. (Min is 4.3 dB and Max is 5.1 dB)



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Branchline Coupler (Port 1 to Port 2 Normalized)

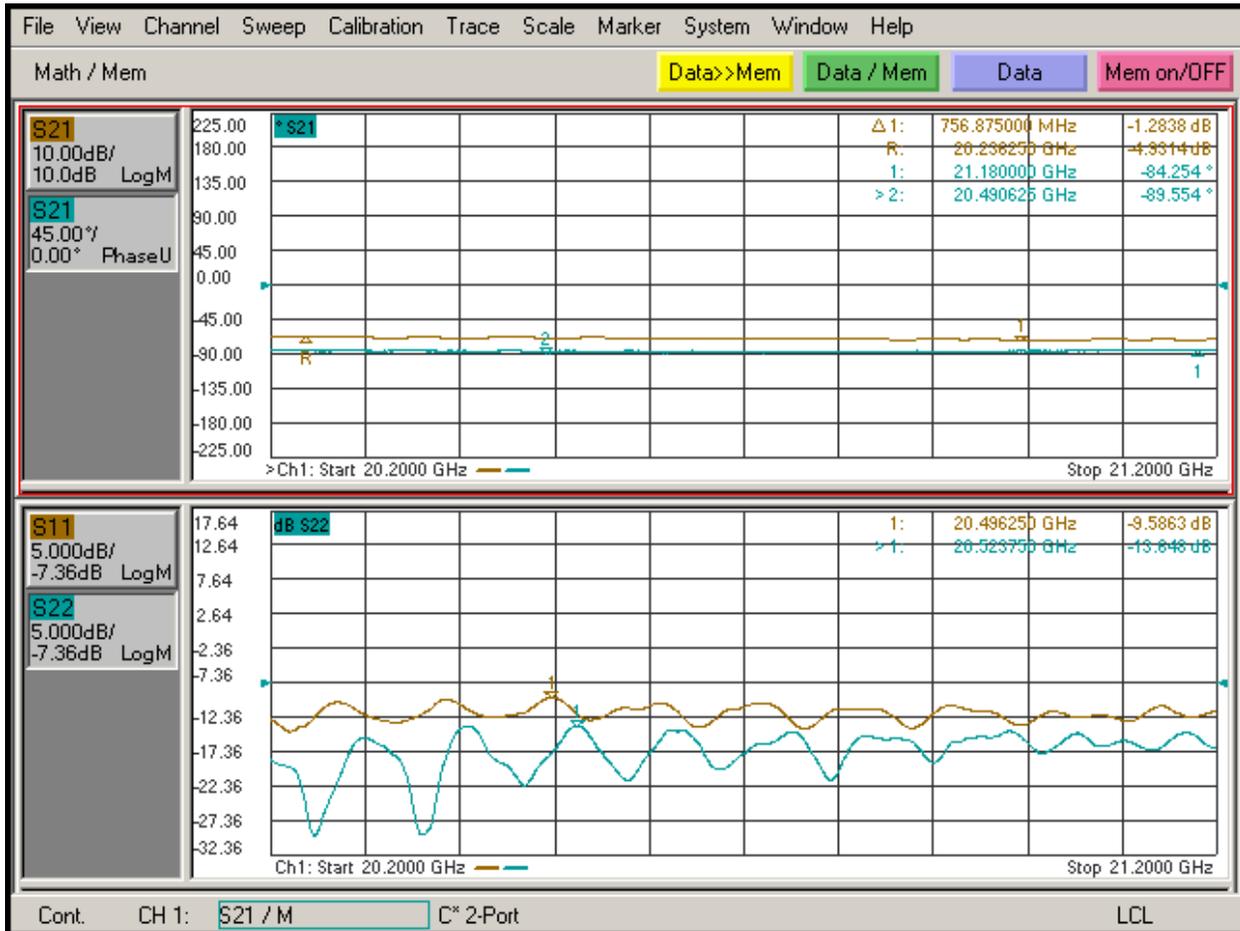


Scale shown on top is in degrees. Phase was normalized to show 0 degrees. Insertion Loss scale is 10 dB / division and is represented by the brown trace. (Min is 4.6 dB / Max 5.8 dB)



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Branchline Coupler (Port 1 to Port 3)



Scale shown on top is in degrees. Phase was normalized to show 0 degrees. Insertion Loss scale is 10 dB / division and is represented by the brown trace. (Min is 4.9 dB / Max 6.1 dB)