

PRODUCT SPECIFICATION FOR INFORMATION

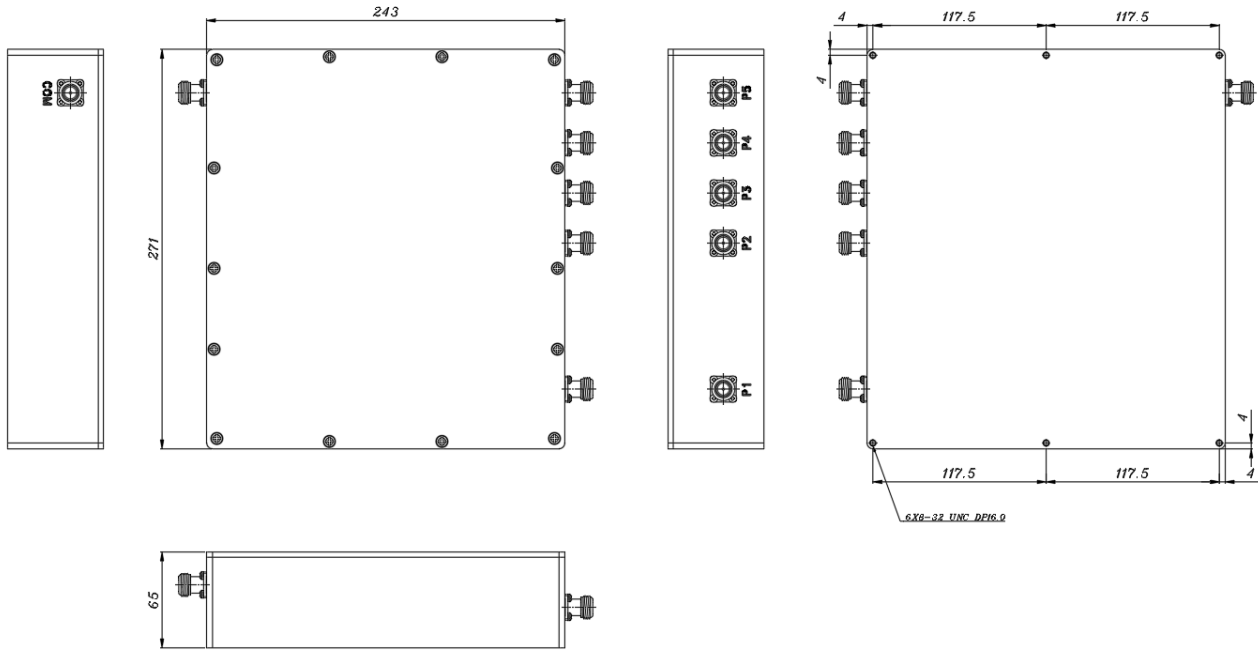
FINAL SPECIFICATION

Product Name : ReDrone System Multiplexer

Part No : MMP-5COM_400-5900MN-A-R0

	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2024.04.25	Jeffrey Chung	Michael Jeon

■ Mechanical Drawing



■ Electrical Specification

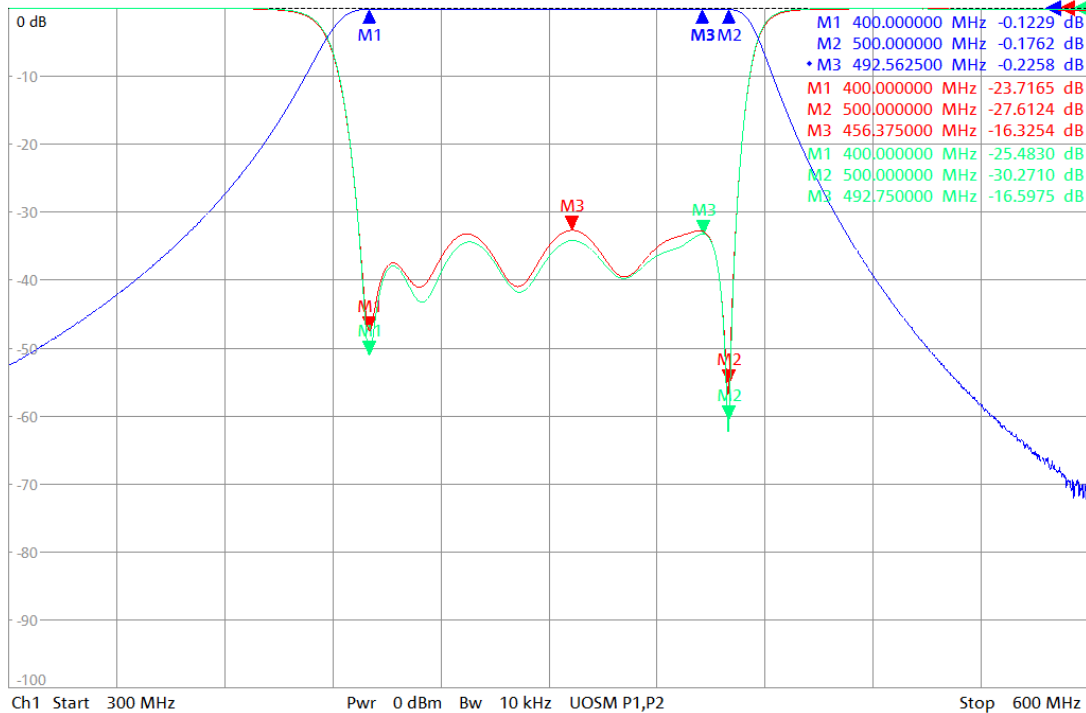
Parameter		Specification	Remark
1. Pass Band Frequency	P1	400MHz~500MHz	
	P2	860MHz~940MHz	
	P3	1160MHz~1610MHz	
	P4	2300MHz~2500MHz	
	P5	5700MHz~5900MHz	
	P6	Combined Port	
2. Insertion Loss	P1	0.6dB Max.	
	P2	0.8dB Max.	
	P3	0.8dB Max.	
	P4	0.8dB Max.	
	P5	0.8dB Max.	
3. RF Power	P1	175 W Max.	
	P2	175 W Max.	
	P3	60 W Max.	
	P4	175 W Max.	
	P5	175 W Max.	
	P6	760 W Max.	
4. Return Loss		14dB Min.	
5. Isolation		60dB Min. @ Port 1-5 ↔ Port 1-5	
6. 2 ND Harmonic Rejection		60dBc Min.	
7. Dimension		243.0 x 271.0 x 65.0 mm	
8. Impedance		50Ω	
9. Operating temp		-32 ~ +55 °C	
10. Application		Outdoor IP65	
11. Connector		N (F)	

Test Curve

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Trc1 — S21 dB Mag 10 dB/ Ref 0 dB Cal Trc2 — S11 dB Mag 5 dB/ Ref 0 dB Cal
 Trc3 — S22 dB Mag 5 dB/ Ref 0 dB Cal

1 ▾

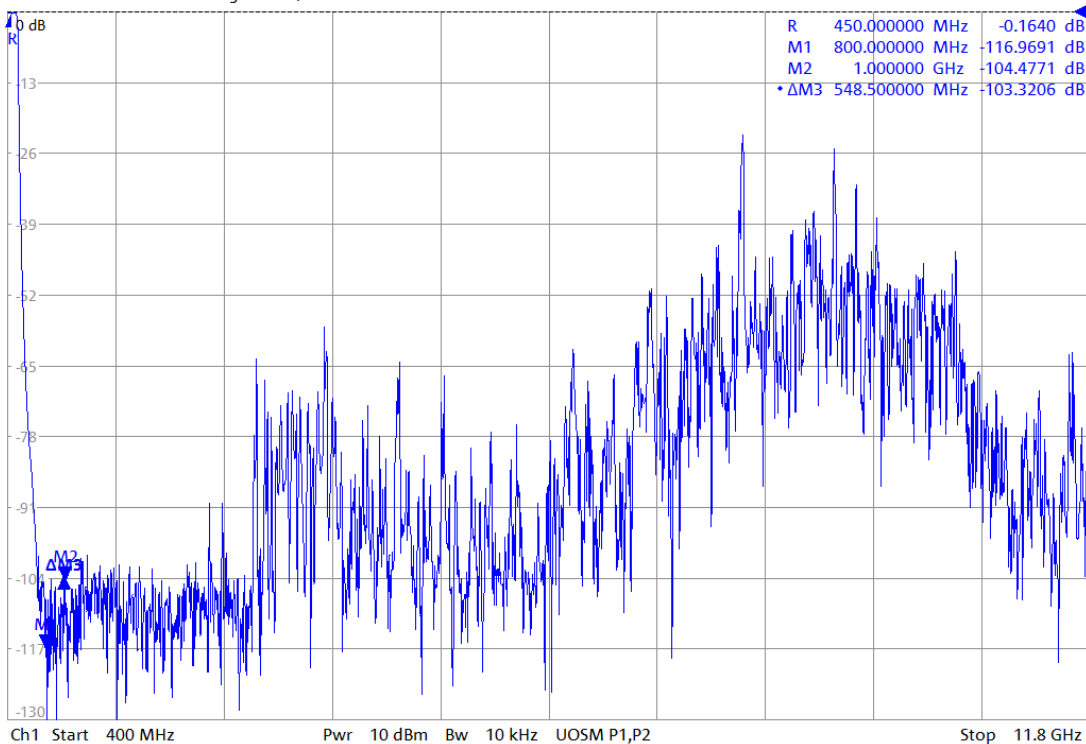


[P1 Main]

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Trc1 — S21 dB Mag 13 dB/ Ref 0 dB Cal

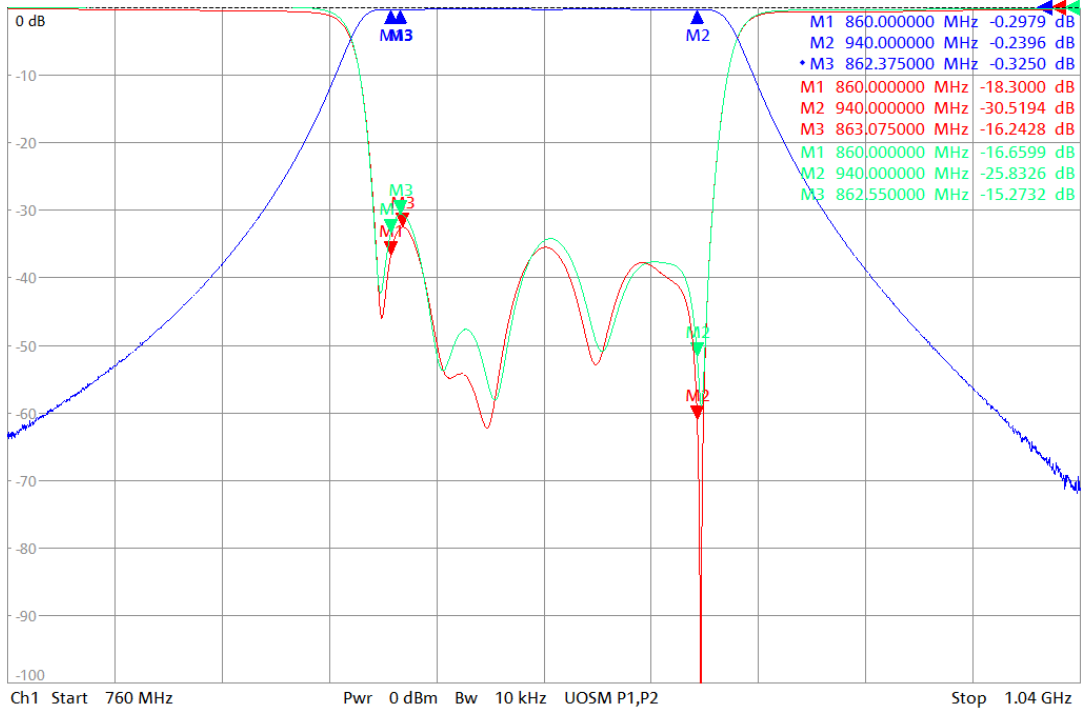
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[P1 Rejection]

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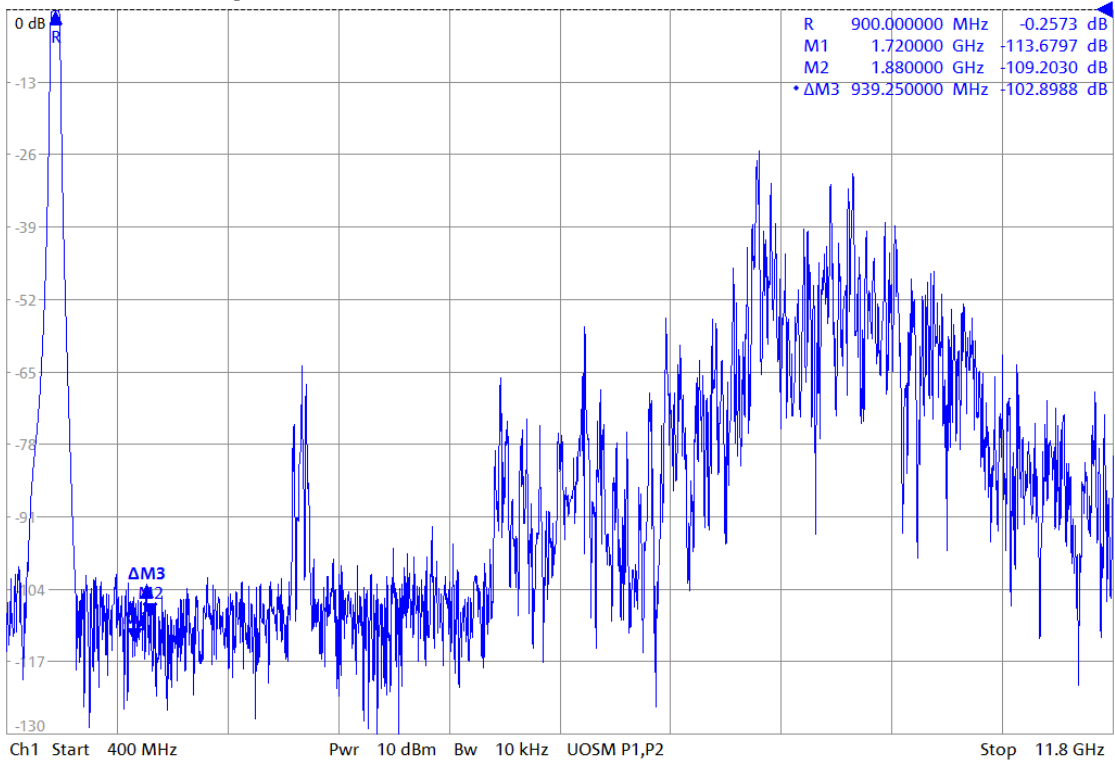
Trc1 — S21 dB Mag 10 dB/ Ref 0 dB Cal Trc2 — S11 dB Mag 5 dB/ Ref 0 dB Cal
Trc3 — S22 dB Mag 5 dB/ Ref 0 dB Cal



[P2 Main]

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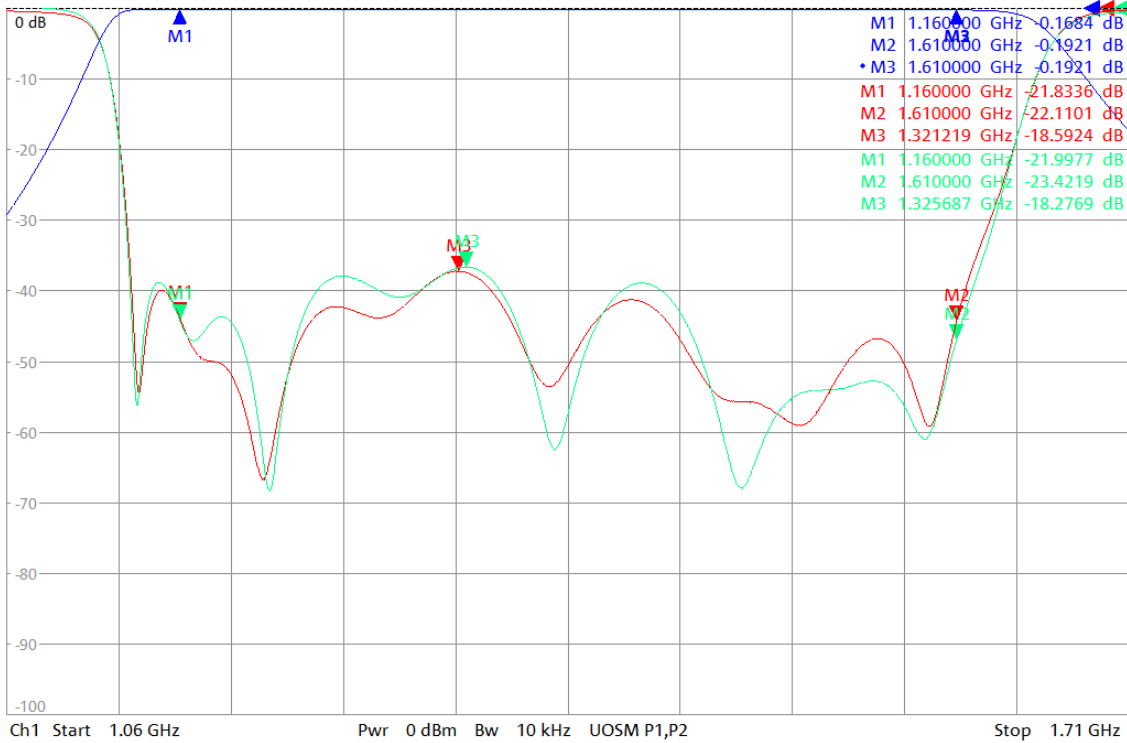
Trc1 — S21 dB Mag 13 dB/ Ref 0 dB Cal



[P2 Rejection]

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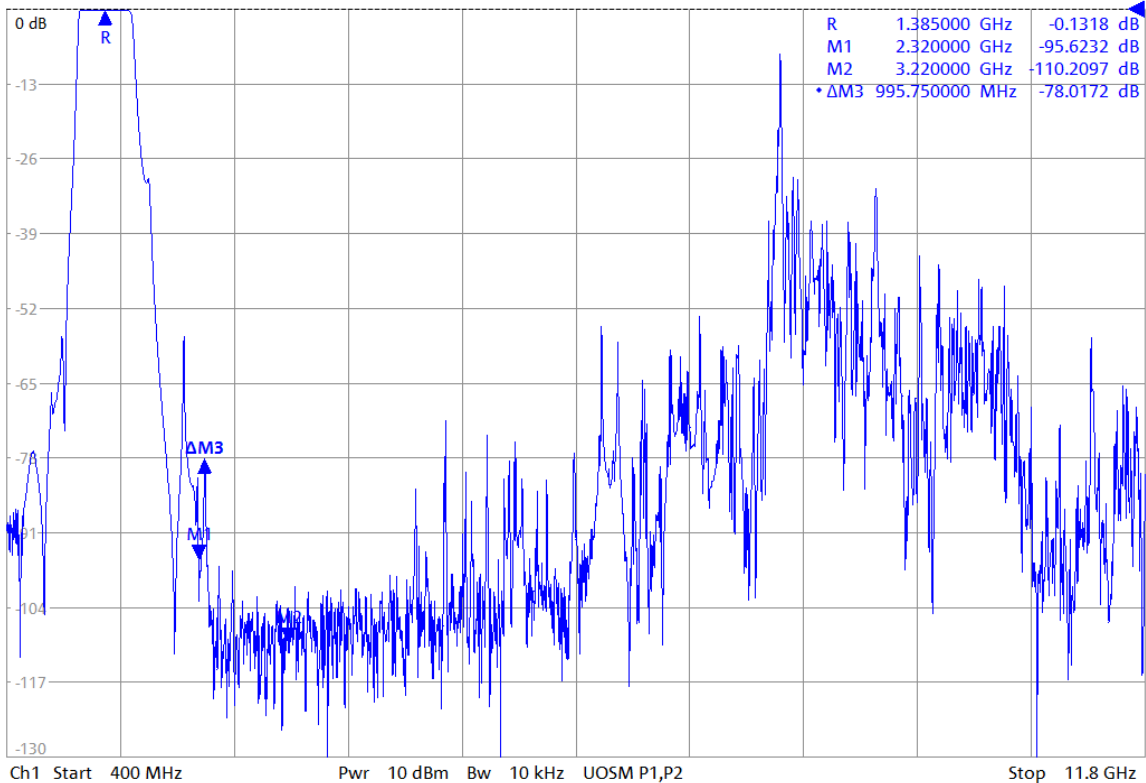
Trc1 — S21 dB Mag 10 dB/ Ref 0 dB Cal Trc2 — S11 dB Mag 5 dB/ Ref 0 dB Cal
Trc3 — S22 dB Mag 5 dB/ Ref 0 dB Cal



[P3 Main]

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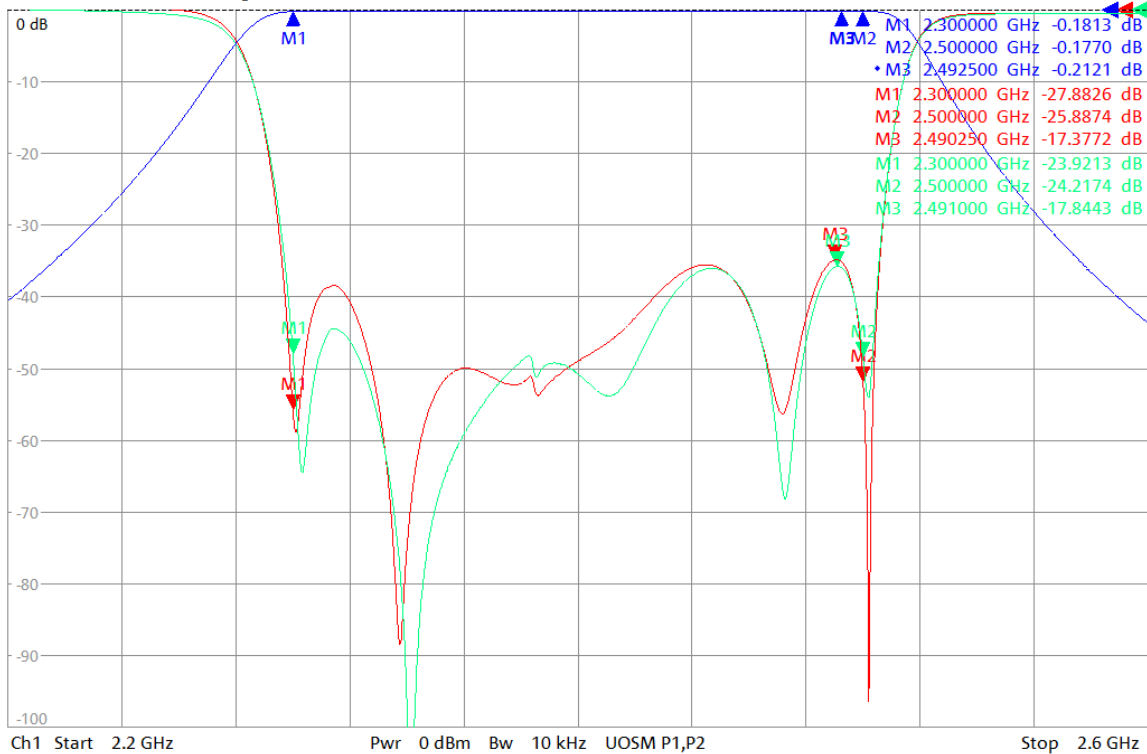
Trc1 — S21 dB Mag 13 dB/ Ref 0 dB Cal



[P3 Rejection]

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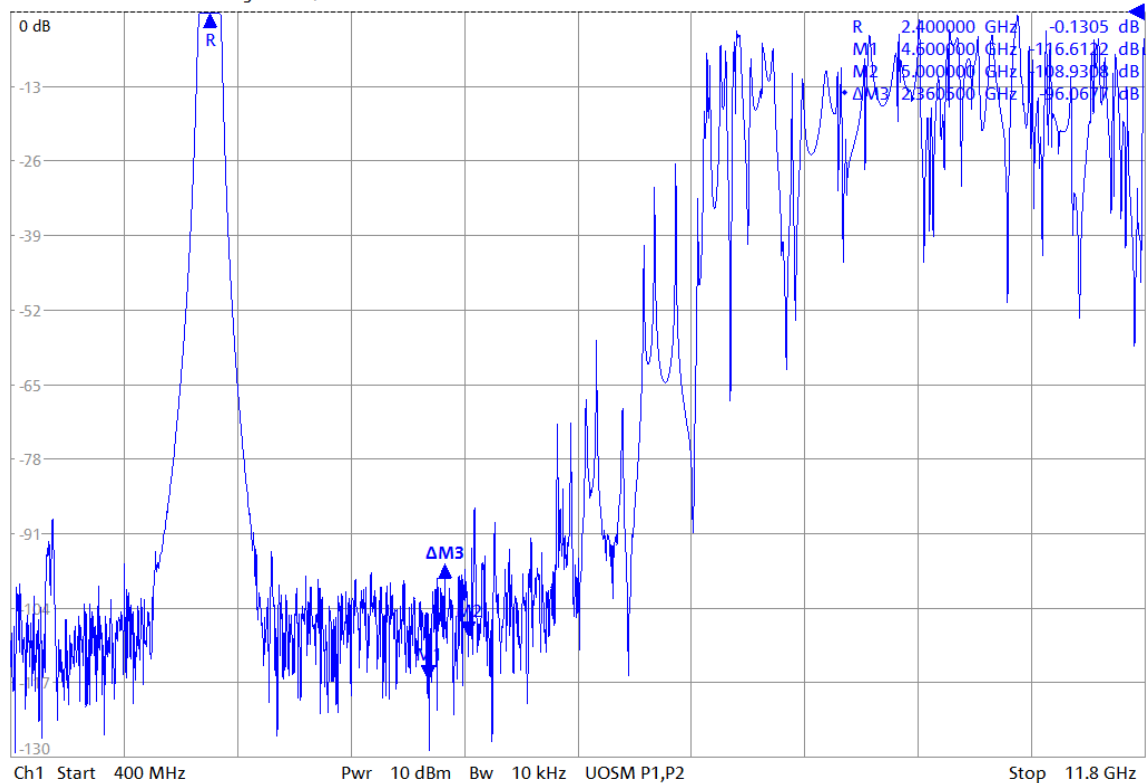
Trc1 — S21 dB Mag 10 dB/ Ref 0 dB Cal Trc2 — S11 dB Mag 5 dB/ Ref 0 dB Cal
Trc3 — S22 dB Mag 5 dB/ Ref 0 dB Cal



[P4 Main]

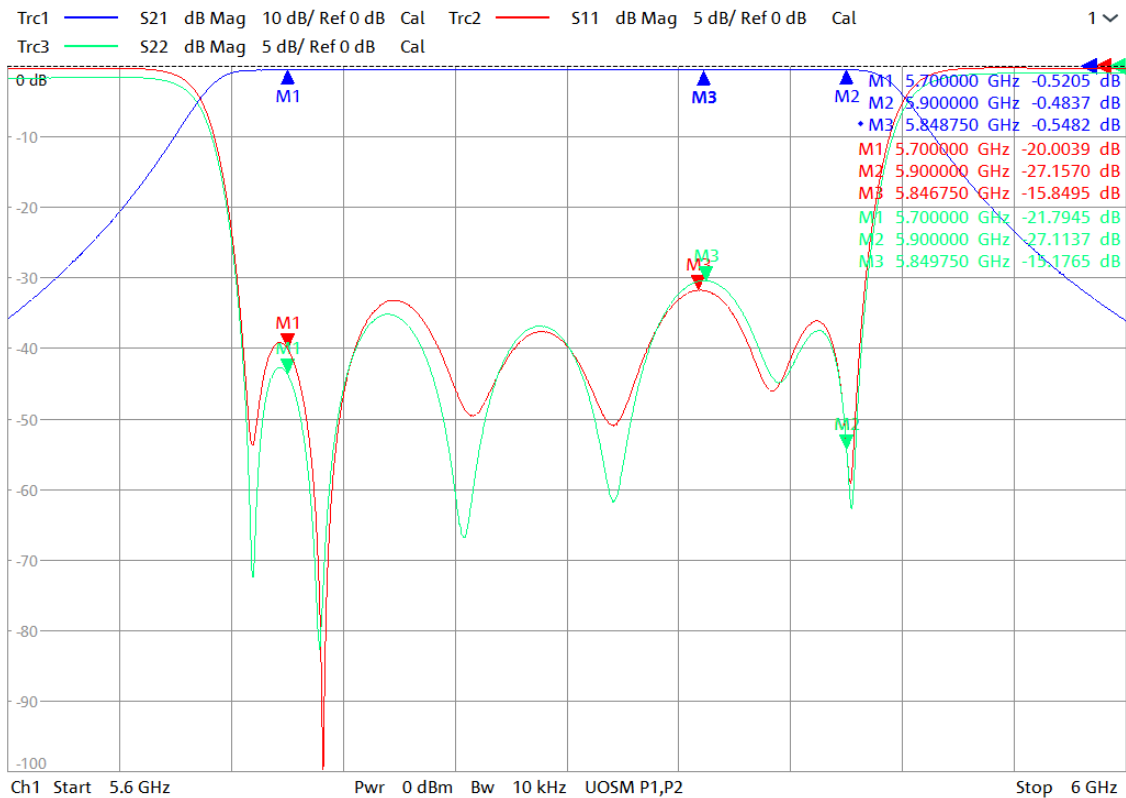
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Trc1 — S21 dB Mag 13 dB/ Ref 0 dB Cal



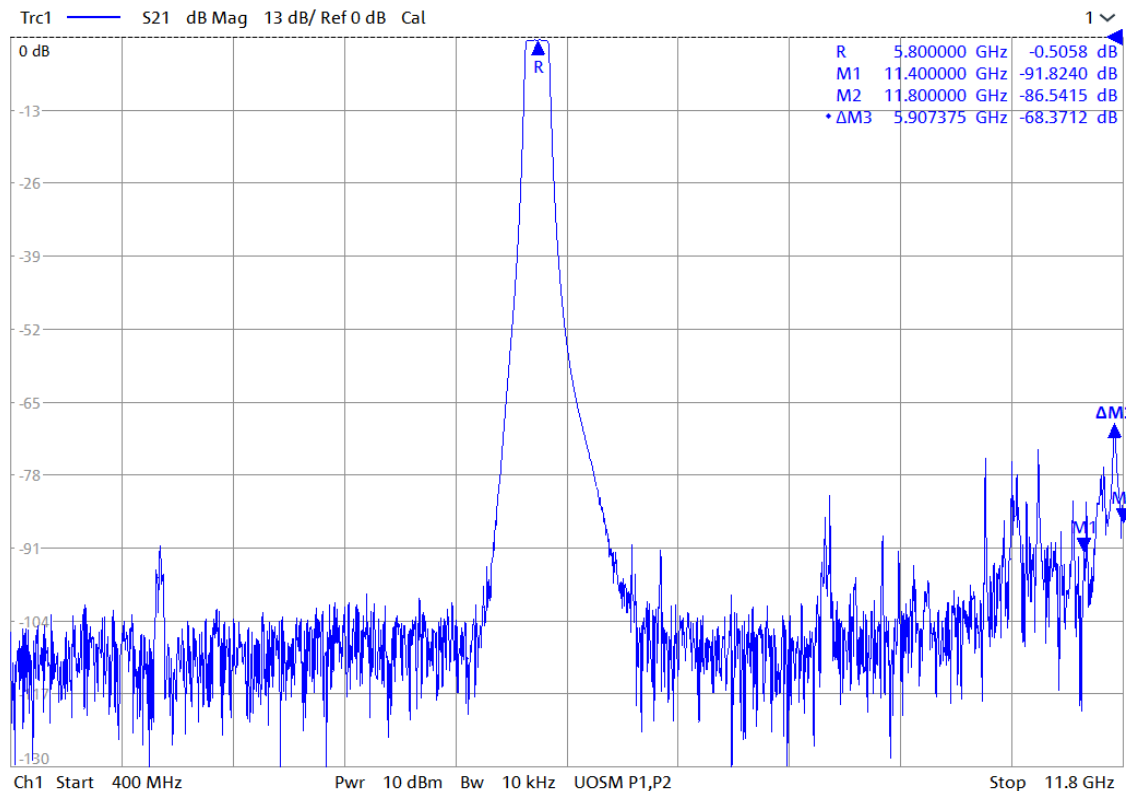
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[P5 Main]

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[P5 Rejection]