

PRODUCT SPECIFICATION FOR INFORMATION

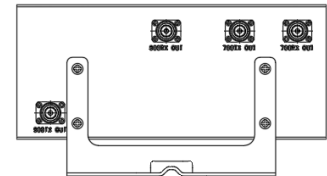
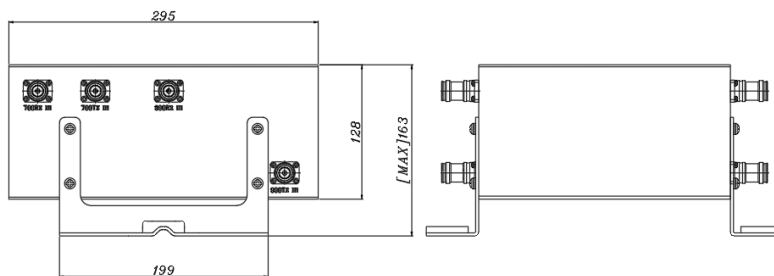
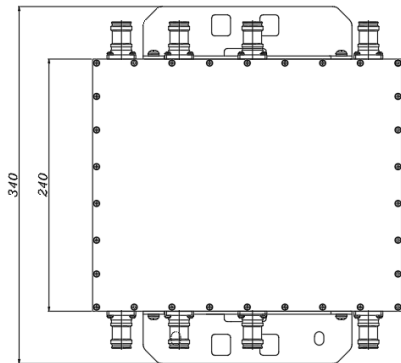
PRELIMINARY SPECIFICATION

Product Name : 700+900MHz Filter Module

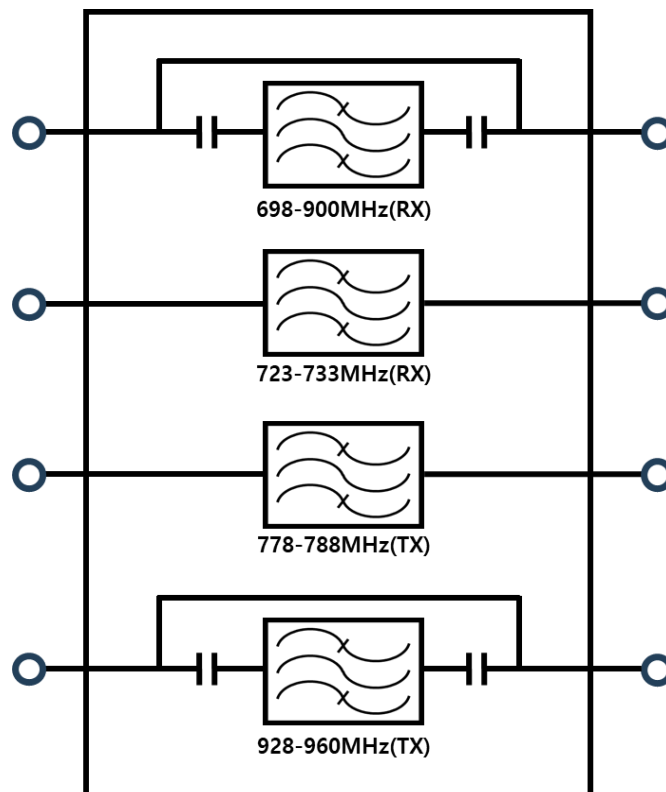
Part No : MFM-C829_262MD-A-R0

	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2026.02.04	Jeffrey Chung	Michael Jeon

■ Mechanical Drawing



■ Block Diagram



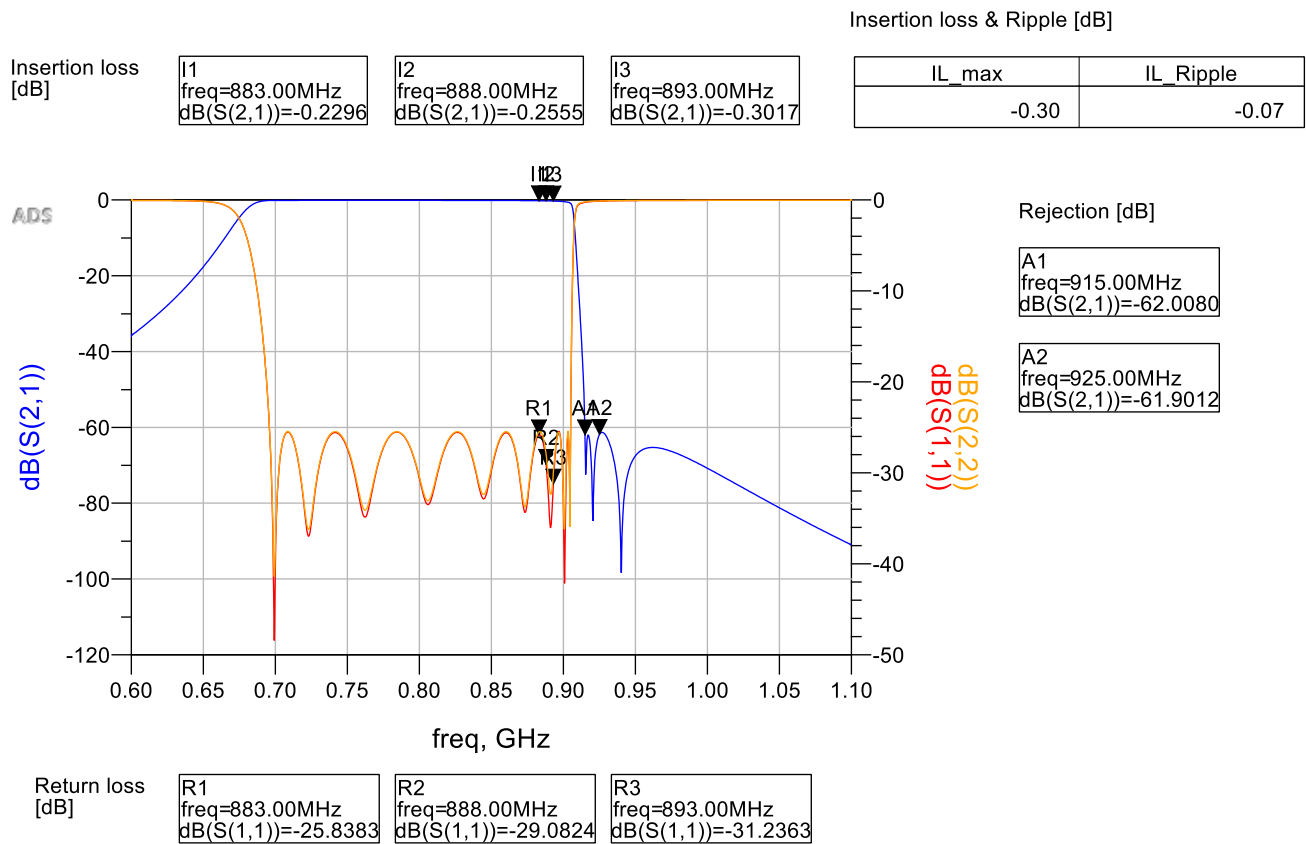
■ Electrical Specification

698-900MHz RX (900RX)

Parameter	Specification	Remark
1. Center Frequency	799MHz	OK
2. Bandwidth [BW]	$F_c \pm 101\text{MHz}$ [698~900MHz]	OK
3. Insertion Loss in BW	0.4dB Max. @778~788MHz 0.6dB Max. @723~733MHz, 883~893MHz	OK
4. VSWR	1.2:1 Max.	Proposal
5. Insertion Loss at RET OOK Mode	0.5dB Max. @ 2.076~2.276MHz	Proposal
	0.5dB Max. @ 9.59~11.17MHz	Proposal
6. VSWR at RET OOK Mode	1.2:1 Max. @ 2.076~2.276MHz	Proposal
	2.0:1 Max. @ 9.59~11.17MHz	Proposal
7. Rejections (Common Spec.)	50dB Min @ 915-925MHz	OK
8. Impedance(Common Spec.)	50Ohm	OK
9. Special feature	DC by-pass between ports 1500mA @ 10-32 VDC	OK
10. PIM(Common Spec.)	b28, b8, b3, b1, b7 - UL; n78≤-155dBc @2x20 W	OK
11. Operating Temperature (Common Spec.)	-10°C ~ +60°C	OK
12. Input Power(Common Spec.)	RMS 100W Max.	OK
13. Size(W×D×H) (Common Spec.)	240.0 x 85.0 x 50.0 mm	Proposal
14. Connector (Common Spec.)	4.3-10 female (long neck)	OK
15. Ingress Protection (Common Spec.)	IP65	OK
16. Marking (Common Spec.)	Description, Model No, Manufacturer, S/N	OK
17. Finish (Common Spec.)	Black Epoxy	TBD

Remarks: This is a preliminary datasheet for reference.

Simulation Data



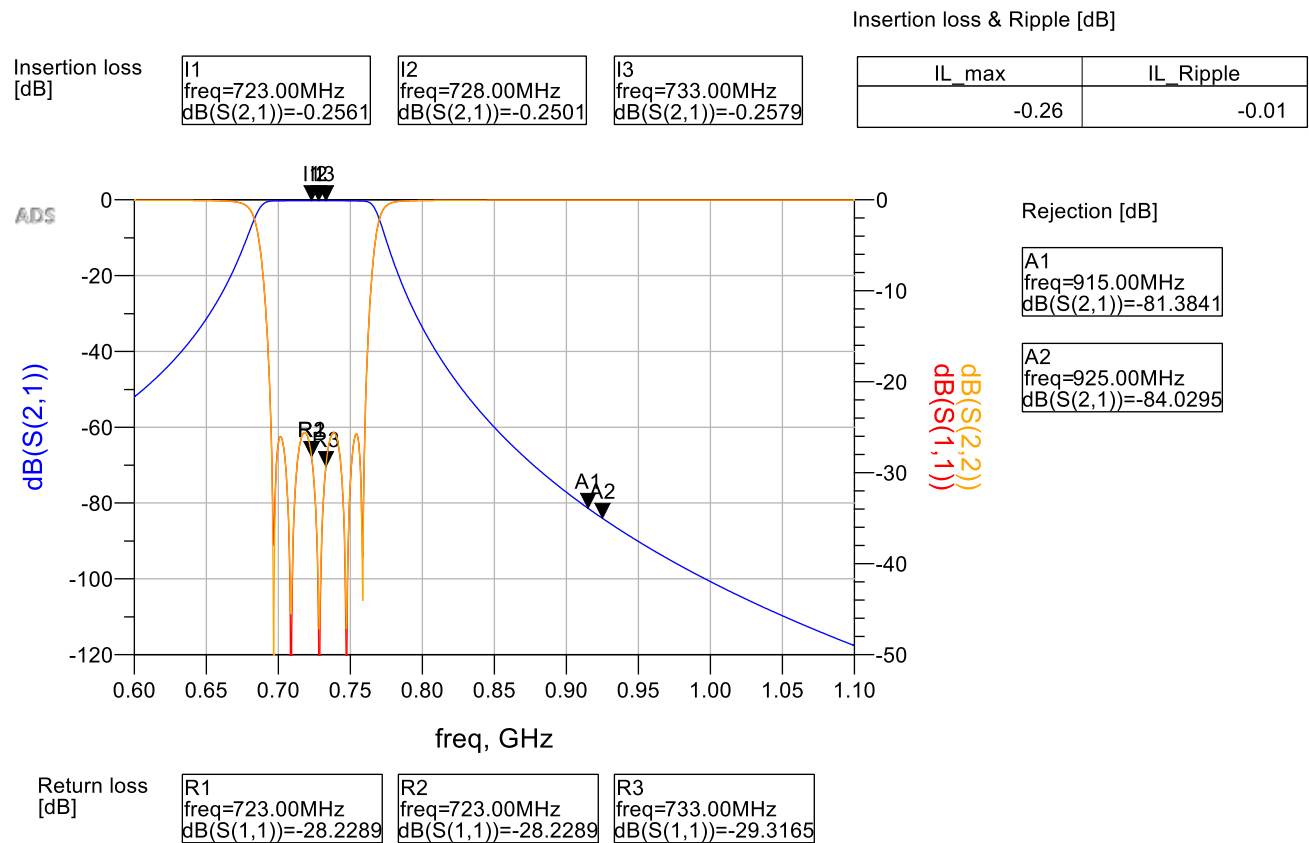
■ Electrical Specification

723-733MHz RX (700RX)

Parameter	Specification	Remark
1. Center Frequency	728MHz	OK
2. Bandwidth [BW]	Fc $\pm$ 5MHz[723~733MHz]	OK
3. Insertion Loss in BW	0.6dB Max. @723~733MHz	OK
4. VSWR	1.2:1 Max.	Proposal
5. Rejections	50dB Min @ 915-925MHz	OK
6. Impedance	50Ohm	OK
7. PIM	b28, b8, b3, b1, b7 - UL; n78 $\leq$ -155dBc @2x20 W	OK

Remarks: This is a preliminary datasheet for reference.

■ Simulation Data



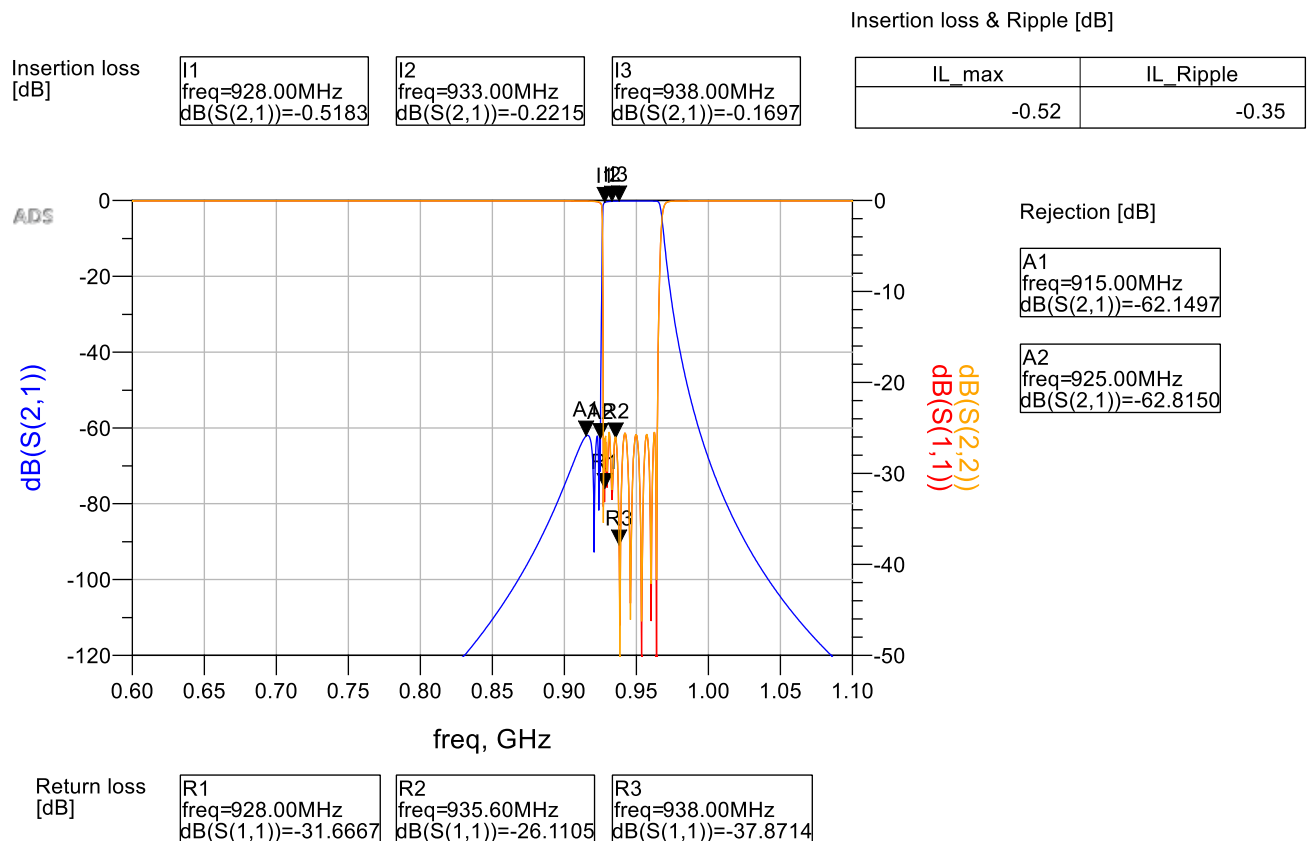
Electrical Specification

928-960MHz TX (900TX)

Parameter	Specification	Remark
1. Center Frequency	944MHz	OK
2. Bandwidth [BW]	$F_c \pm 16\text{MHz}$ [928~960MHz]	OK
3. Insertion Loss in BW	0.4dB Max. @928~938MHz	OK
4. VSWR	1.2:1 Max.	Proposal
5. Insertion Loss at RET OOK Mode	0.5dB Max. @ 2.076~2.276MHz	Proposal
	0.5dB Max. @ 9.59~11.17MHz	Proposal
6. VSWR at RET OOK Mode	1.2:1 Max. @ 2.076~2.276MHz	Proposal
	2.0:1 Max. @ 9.59~11.17MHz	Proposal
7. Rejections	50dB Min @ 915-925MHz	OK
8. Impedance	50Ohm	OK
9. PIM	b28, b8, b3, b1, b7 - UL; $n78 \leq -155\text{dBc}$ @2x20 W	OK
10. Special feature	DC by-pass between ports 1500mA @ 10-32 VDC	OK

Remarks: This is a preliminary datasheet for reference.

Simulation Data



■ Electrical Specification

778-788MHz TX (700TX)

Parameter	Specification	Remark
1. Center Frequency	783MHz	OK
2. Bandwidth [BW]	$F_c \pm 5\text{MHz}$ [778~788MHz]	OK
3. Insertion Loss in BW	0.4dB Max. @778~788MHz	OK
4. VSWR	1.2:1 Max.	Proposal
5. Rejections	50dB Min @ 915-925MHz	OK
6. Impedance	50Ohm	OK
7. PIM	b28, b8, b3, b1, b7 - UL; n78≤-155dBc @2x20 W	OK

Remarks: This is a preliminary datasheet for reference.

■ Simulation Data

