

PRODUCT SPECIFICATION FOR INFORMATION

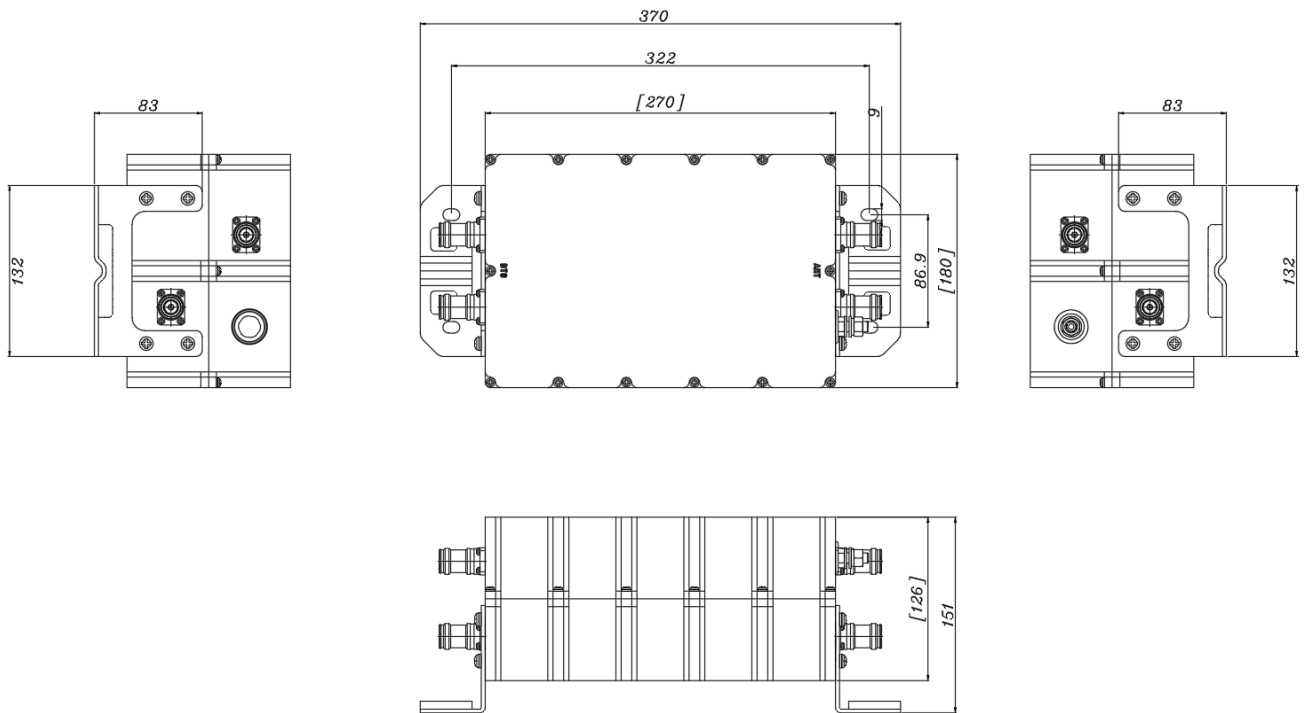
PRELIMINARY SPECIFICATION

**Product Name : Double SISO
(Single Input Single Output)**

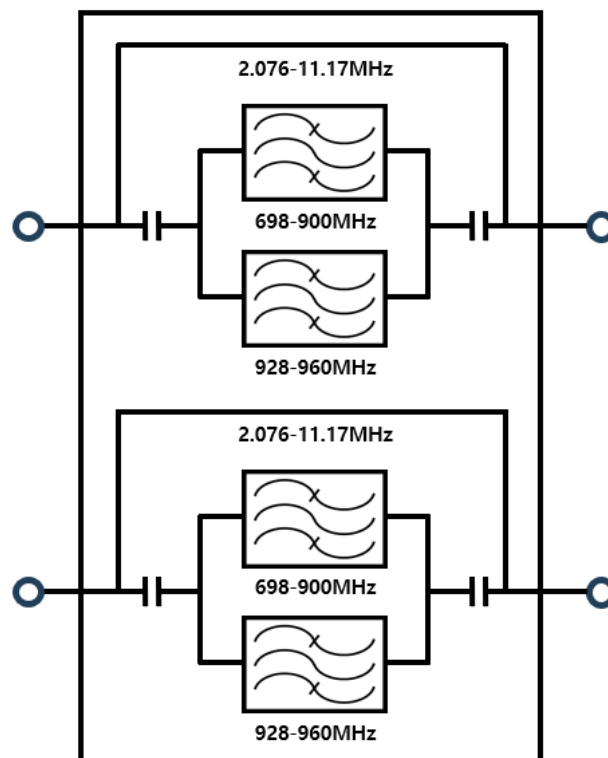
Part No : MDI-C808-C933_170M_10MD-A-R0

	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2026.02.23	Jeffrey Chung	Michael Jeon

■ Mechanical Drawing



■ Block Diagram



■ Electrical Specification

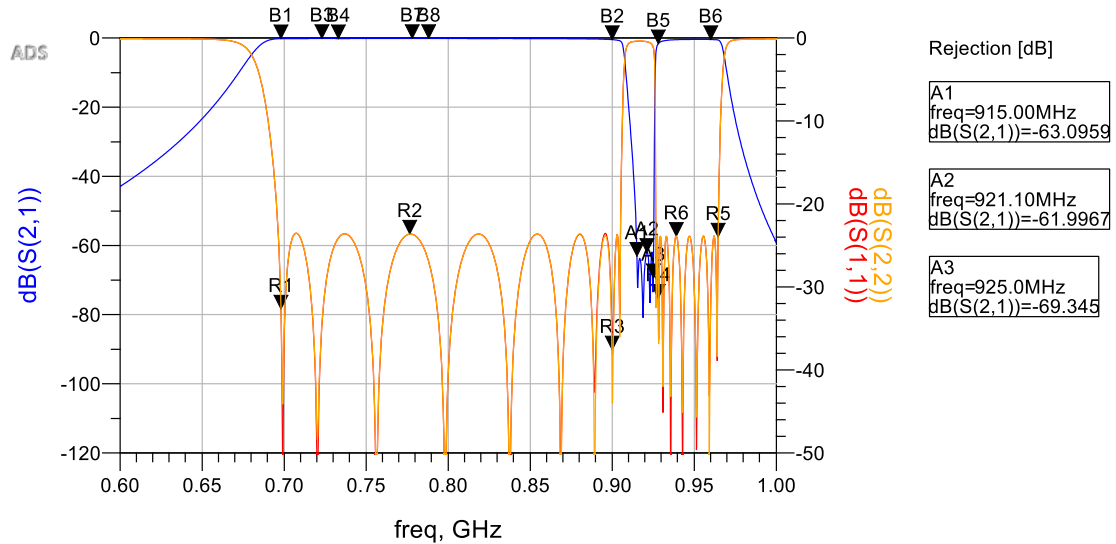
Parameter	Specification		Remark
	3GPP B28 UL/DL, B8 UL	3GPP B8 DL	
1. Passband	723~733MHz, 883~893MHz	928~938MHz	OK
2. Insertion Loss in Passband	0.6dB Max.	1.7dB typ. 1.9dB max.	Proposal
3. VSWR	1.15:1 typ. / 1.3:1 max.		Proposal
4. Insertion Loss at RET OOK Mode	0.5dB Max. @ 2.076~2.276MHz		Proposal
	0.5dB Max. @ 9.59~11.17MHz		Proposal
5. VSWR at RET OOK Mode	1.2:1 Max. @ 2.076~2.276MHz		Proposal
	2.0:1 Max. @ 9.59~11.17MHz		Proposal
6. Rejections	50dB Min @ 915-925MHz		OK
7. Impedance	50Ohm		OK
8. Special feature	DC by-pass between ports 1500mA @ 10-32 VDC		OK
9. PIM	b28, b8, b3, b1, b7 - UL; n78≤-155dBc @2x20 W		OK
10. Operating Temperature	-10°C ~ +60°C		OK
11. Input Power	RMS 100W Max.		OK
12. Size(W×D×H)	270 X 180 X 126 mm		Proposal
13. Connector	4.3-10 female (long neck)		OK
14. Ingress Protection	IP65		OK
15. Marking	Description, Model No, Manufacturer, S/N		OK
16. Finish	Black Epoxy		TBD

Remarks: This is a preliminary datasheet for reference.

Simulation Data

Passband

B1 freq=698.00MHz dB(S(2,1))=-0.2014	B2 freq=900.00MHz dB(S(2,1))=-0.4771	B3 freq=723.00MHz dB(S(2,1))=-0.1669	B4 freq=733.00MHz dB(S(2,1))=-0.1781
B5 freq=928.00MHz dB(S(2,1))=-1.6510	B6 freq=960.00MHz dB(S(2,1))=-0.4444	B7 freq=778.00MHz dB(S(2,1))=-0.1756	B8 freq=788.00MHz dB(S(2,1))=-0.1665



Return loss
[dB]

R1 freq=698.00MHz dB(S(1,1))=-32.6573	R2 freq=776.50MHz dB(S(1,1))=-23.6307	R3 freq=900.00MHz dB(S(1,1))=-37.5771
R4 freq=928.0MHz dB(S(1,1))=-31.345	R5 freq=964.5MHz dB(S(1,1))=-23.969	R6 freq=939.0MHz dB(S(1,1))=-23.892

Insertion loss
[dB]

I1 freq=778.00MHz dB(S(2,1))=-0.1756	I2 freq=788.00MHz dB(S(2,1))=-0.1665	I3 freq=928.00MHz dB(S(2,1))=-1.6510	I4 freq=938.00MHz dB(S(2,1))=-0.5258
I5 freq=723.00MHz dB(S(2,1))=-0.1669	I6 freq=733.00MHz dB(S(2,1))=-0.1781	I7 freq=883.00MHz dB(S(2,1))=-0.2747	I8 freq=893.00MHz dB(S(2,1))=-0.3466

