

PRODUCT SPECIFICATION FOR INFORMATION

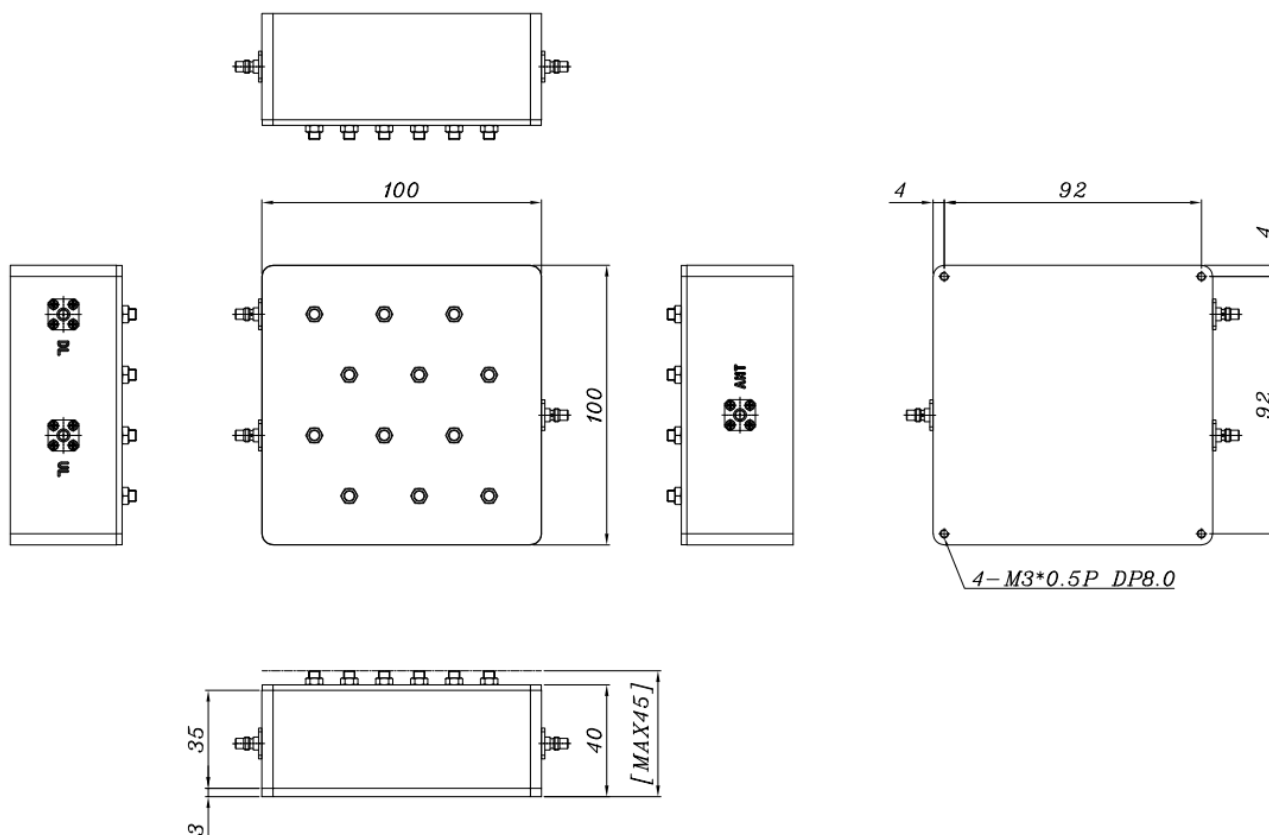
PRELIMINARY SPECIFICATION

Product Name : B8 900 Diplexer

Part No : MDI-C897.5-C942.5_35M-35MS-A-R0

.	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2026.01.19	Jeffrey Chung	Michael Jeon

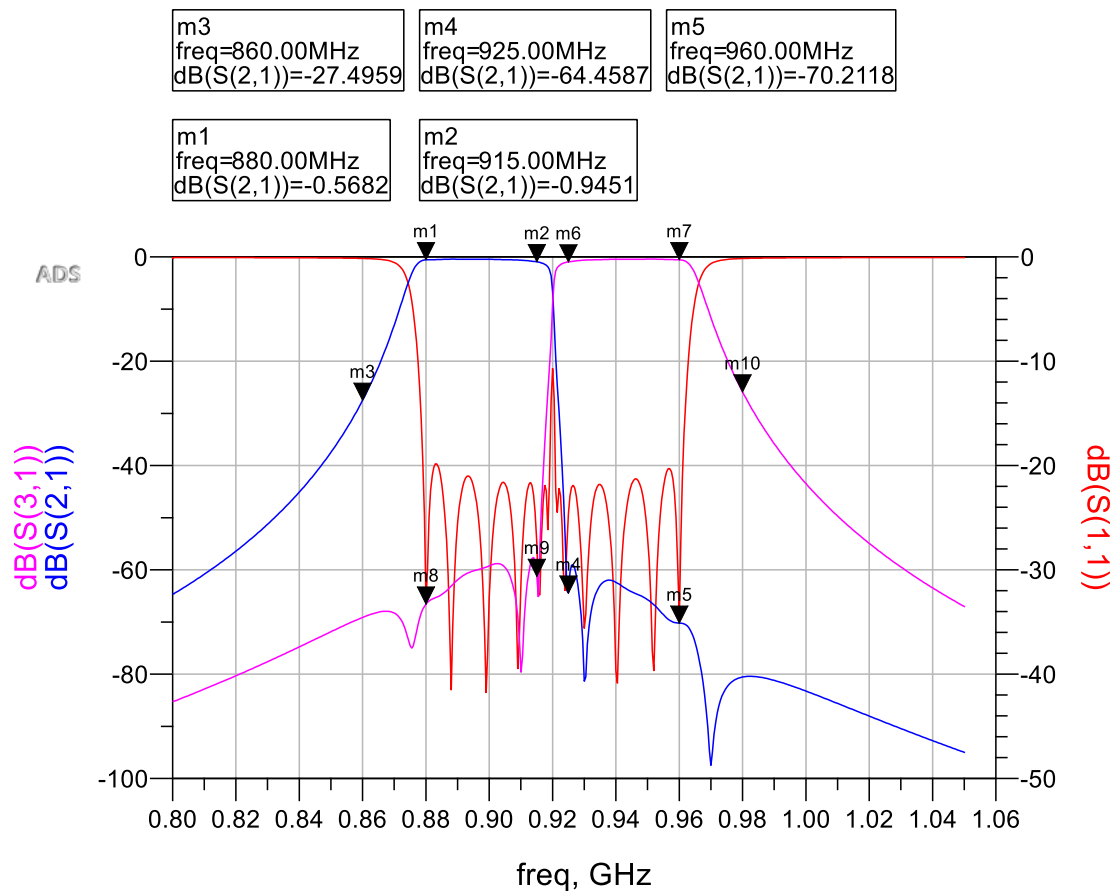
■ Mechanical Drawing



■ Electrical Specification

Item	Specification		Remark
	UL	DL	
1. Center Frequency	897.5 MHz	942.5 MHz	OK
2. Pass Band Frequency	$f_0 \pm 17.5 [880 \sim 915] \text{ MHz}$	$f_0 \pm 17.5 [925 \sim 960] \text{ MHz}$	OK
3. Insertion Loss	1.2 dB Max.	1.2 dB Max.	Proposal
4. Return Loss	18.0dB Min.		TBD
5. Attenuation	20dB min. @860MHz	20dB min. @980MHz	TBD
	50dB min. @925~960MHz	50dB min. @880~915MHz	TBD
6. In/Out Impedance	50 Ω		OK
7. Input Power	20 W Max.		OK
8. Operation Temperature Range	-30°C ~ +85°C		TBD
9. Dimension [WxDxH]	100.0 x 100.0 x 45.0 [mm]		Proposal
10. Connector	SMC(f)		OK
11. Finish	Black Painting		TBD

■ Simulation Data



m6
freq=925.00MHz
dB(S(3,1))=-0.9612

m7
freq=960.00MHz
dB(S(3,1))=-0.5552

m8
freq=880.00MHz
dB(S(3,1))=-66.5652

m9
freq=915.00MHz
dB(S(3,1))=-61.2705

m10
freq=980.00MHz
dB(S(3,1))=-25.8903