

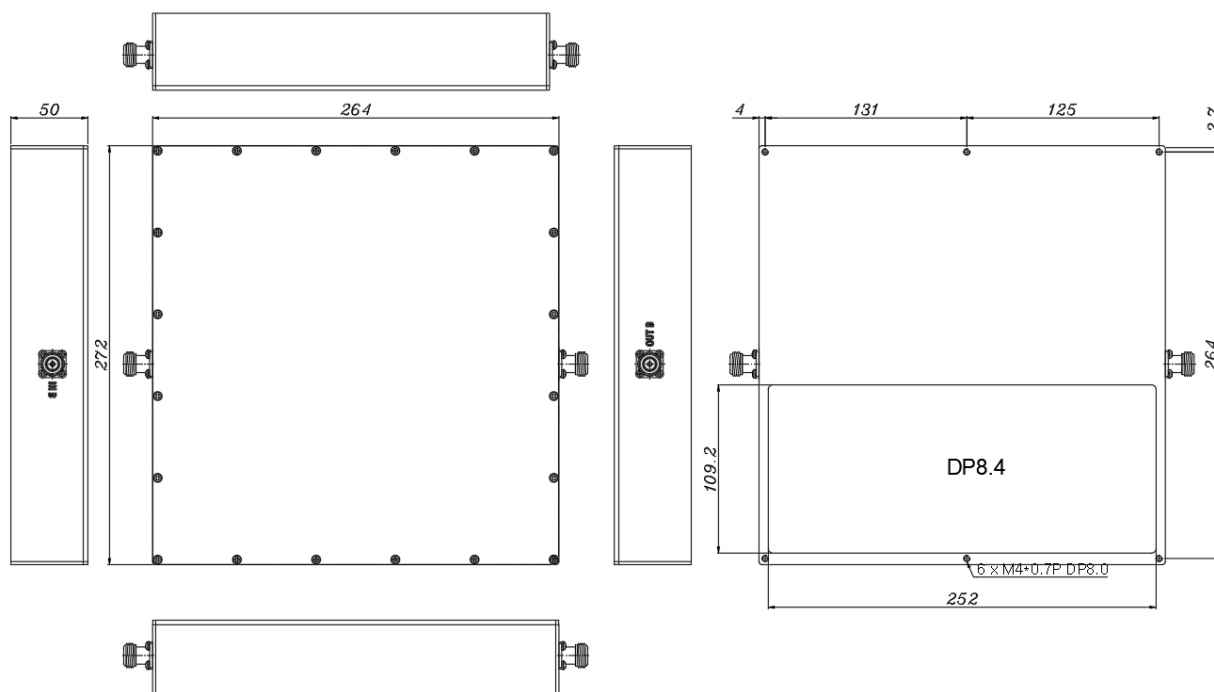
PRODUCT SPECIFICATION FOR INFORMATION

PRELIMINARY SPECIFICATION

Product Name : Cavity Diplexer(SISO)
Part No : MDI-C915-C2442_22M-80MN-B-R0

.	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2026.05.14	Jeffrey Chung	Michael Jeon

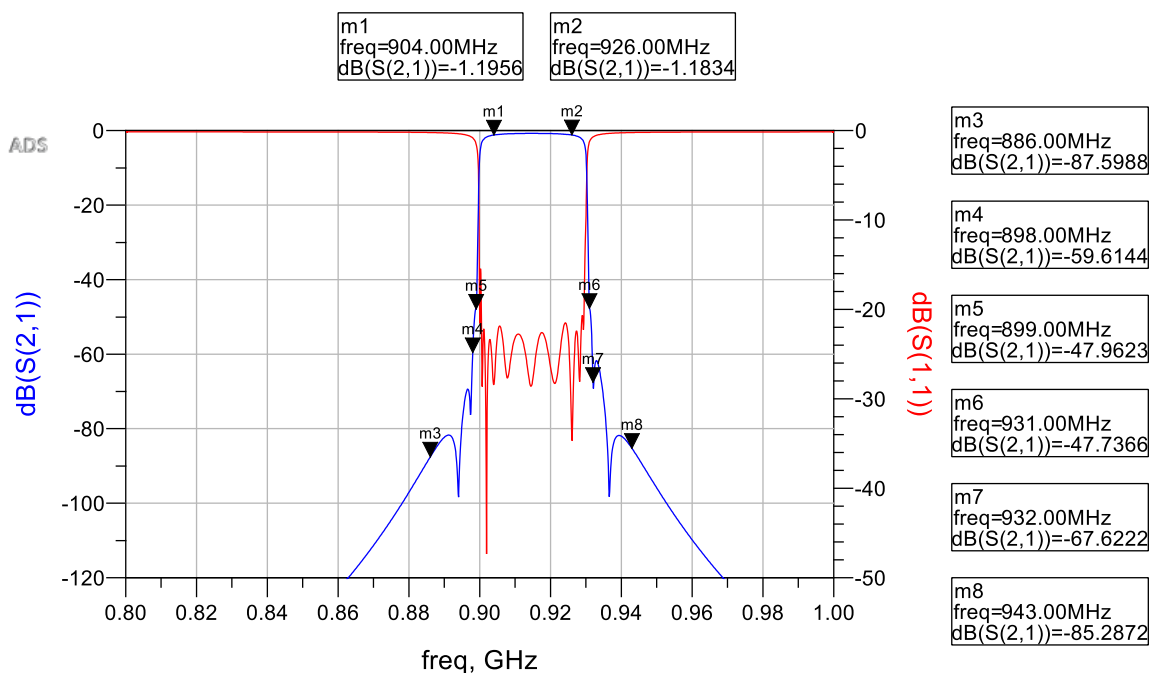
■ Mechanical Drawing



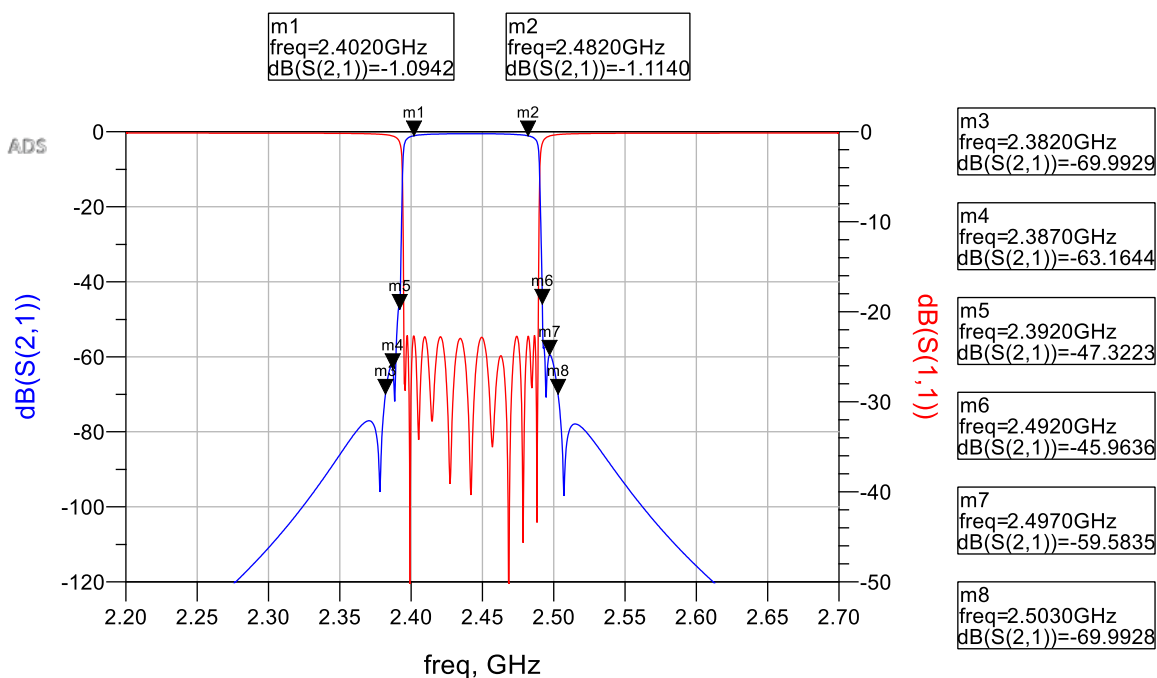
■ Electrical Specification

Item	Specification		Remark
	Low band	High band	
1. Center Frequency	915 MHz	2442 MHz	OK
2. Pass Band Frequency	$f_0 \pm 11[904 \sim 926]$ MHz	$f_0 \pm 40[2402 \sim 2482]$ MHz	OK
3. Insertion Loss	1.5 dB Max.	1.5 dB Max.	OK
4. Ripple	1.0 dB		OK
5. Return Loss	18.0 dB Min.		OK
6. Rejection	70dB min. @ DC~886MHz	60dB min. @2300~2382MHz	Proposal
	45dB min. @ 896~898MHz	45dB min. @2382~2387MHz	Proposal
	30dB min. @ 898~899MHz	30dB min. @2387~2392MHz	Proposal
	30dB min. @ 931~932MHz	30dB min. @2492~2497MHz	Proposal
	45dB min. @ 932~933MHz	45dB min. @2497~2503MHz	Proposal
	85dB min. @450~1000MHz	60dB min. @2503~6000MHz	Proposal
	70dB min. @ 943~2300MHz		Proposal
7. In/Out Impedance	50 Ω		OK
8. Input Power	5W max. CW 100% Duty cycle		OK
9. Operation Temperature Range	-20°C ~ +70°C		OK
10. Dimension [WxDxH]	264.0 x 272.0 x 50.0mm		Proposal
11. Connector	N-Type(F)		OK
12. Finish	Black Painting		TBD

■ Simulation Data



< 915MHz >



< 2442MHz >