

PRODUCT SPECIFICATION FOR INFORMATION

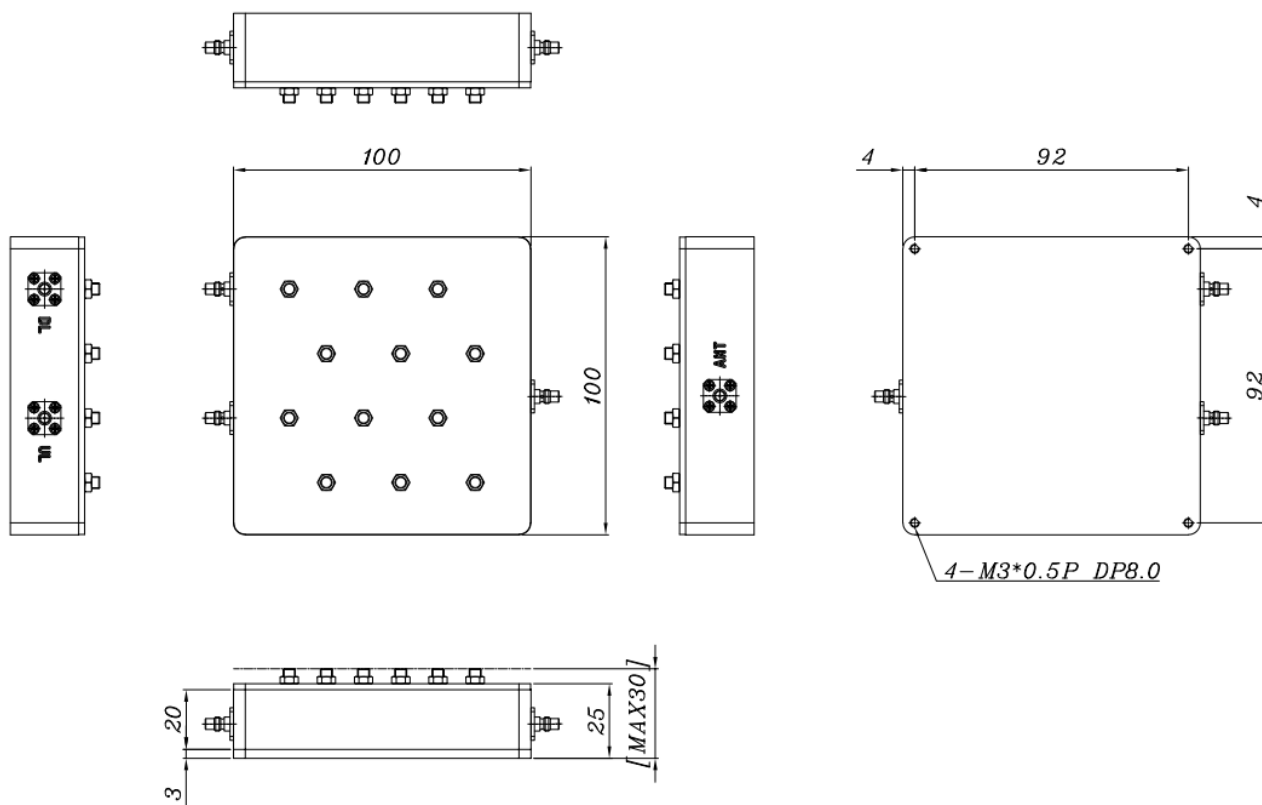
PRELIMINARY SPECIFICATION

Product Name : B1 2100 Diplexer

Part No : MDI-C1950/C2140_60M/60MS-A-R0

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

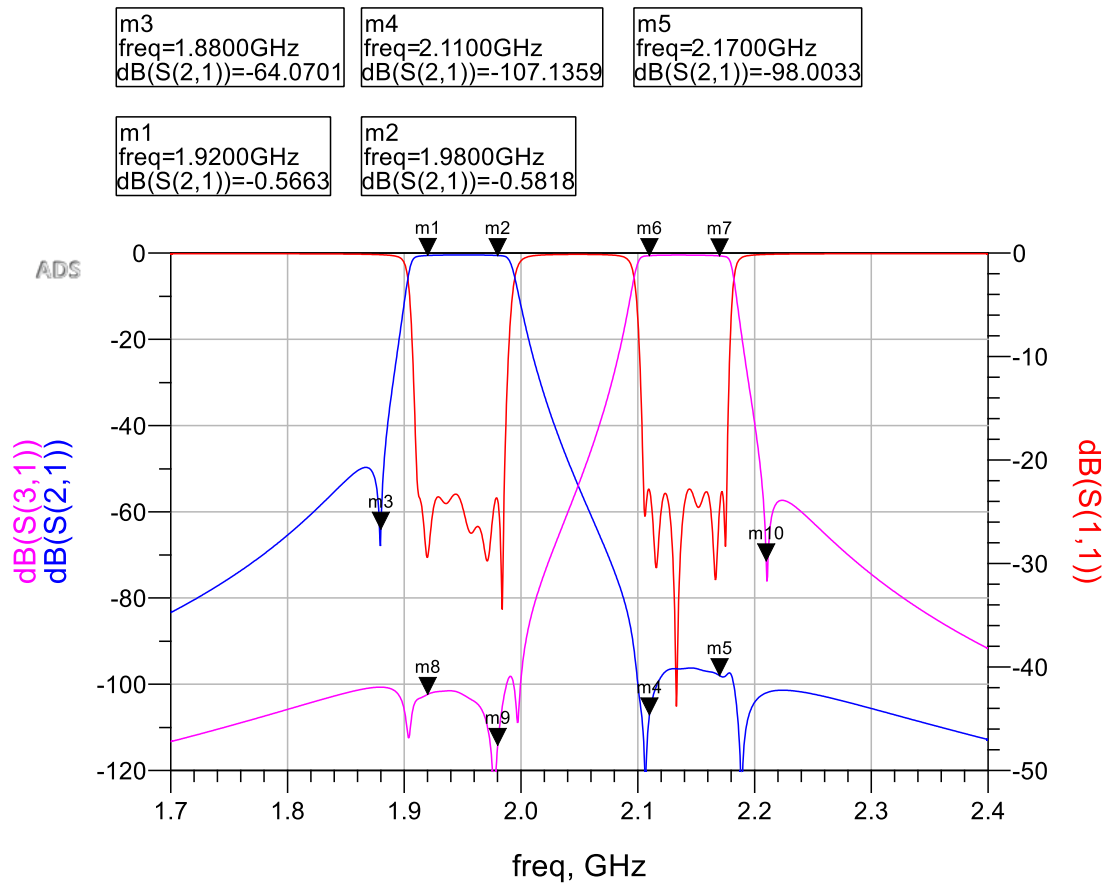
■ Mechanical Drawing



■ Electrical Specification

Item	Specification		Remark
	UL	DL	
1. Center Frequency	1950 MHz	2140 MHz	OK
2. Pass Band Frequency	fo±30[1920~1980]MHz	fo±30[2110~2170]MHz	OK
3. Insertion Loss	1.0 dB Max.	1.0 dB Max.	OK
4. Return Loss	18.0dB Min.		TBD
5. Attenuation	40dB min. @1880MHz	40dB min. @2210MHz	TBD
	90dB min. @2110~2170MHz	90dB min. @1920~1980MHz	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 30.0 [mm]		OK
10. Connector	SMC(f)		OK
11. Finish	Black Painting		TBD

■ Simulation Data



m3
freq=1.8800GHz
dB(S(2,1))=-64.0701

m4
freq=2.1100GHz
dB(S(2,1))=-107.1359

m5
freq=2.1700GHz
dB(S(2,1))=-98.0033

m1
freq=1.9200GHz
dB(S(2,1))=-0.5663

m2
freq=1.9800GHz
dB(S(2,1))=-0.5818

m6
freq=2.1100GHz
dB(S(3,1))=-0.6209

m7
freq=2.1700GHz
dB(S(3,1))=-0.6727

m8
freq=1.9200GHz
dB(S(3,1))=-102.3673

m9
freq=1.9800GHz
dB(S(3,1))=-114.1844

m10
freq=2.2100GHz
dB(S(3,1))=-71.3691