

PRODUCT SPECIFICATION FOR INFORMATION

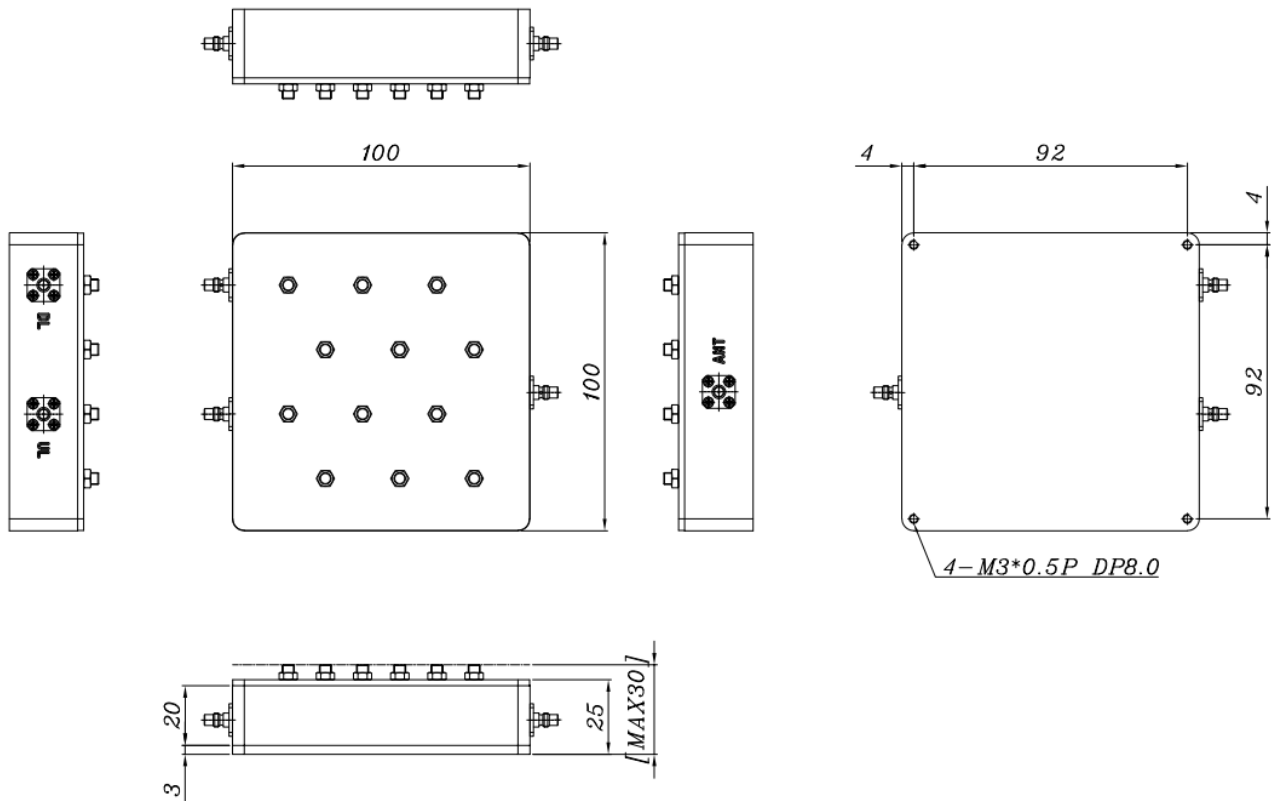
PRELIMINARY SPECIFICATION

Product Name : B3 1800 Diplexer

Part No : MDI-C1747.5/C1842.5_75M/75MS-A-R0

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

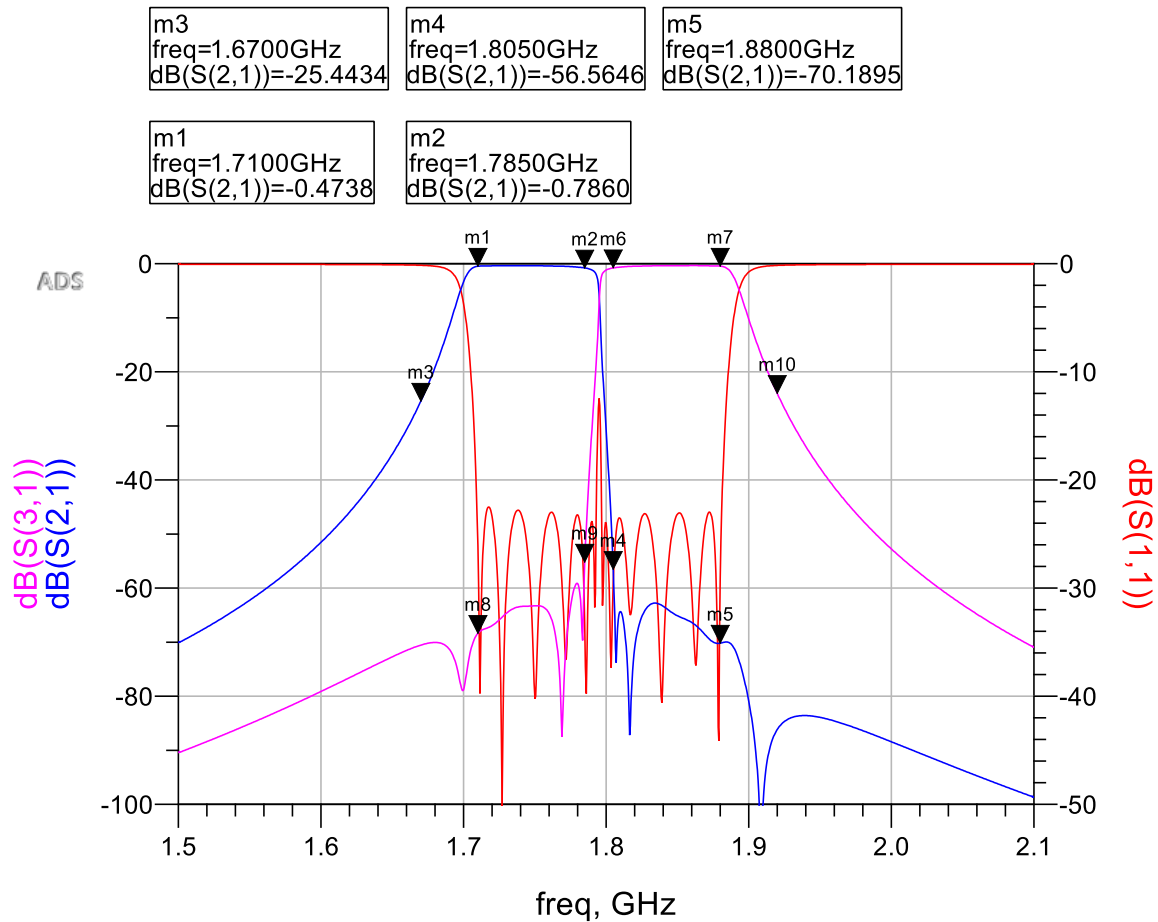
■ Mechanical Drawing



■ Electrical Specification

Item	Specification		Remark
	UL	DL	
1. Center Frequency	1747.5 MHz	1842.5 MHz	OK
2. Pass Band Frequency	fo±37.5[1710~1785]MHz	fo±37.5[1805~1880]MHz	OK
3. Insertion Loss	1.0 dB Max.	1.0 dB Max.	OK
4. Return Loss	18.0dB Min.		TBD
5. Attenuation	20dB min. @1670MHz	20dB min. @1920MHz	TBD
	40dB min. @1805~1880MHz	40dB min. @1710~1785MHz	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=1.6700GHz
dB(S(2,1))=-25.4434

m4
freq=1.8050GHz
dB(S(2,1))=-56.5646

m5
freq=1.8800GHz
dB(S(2,1))=-70.1895

m1
freq=1.7100GHz
dB(S(2,1))=-0.4738

m2
freq=1.7850GHz
dB(S(2,1))=-0.7860

m6
freq=1.8050GHz
dB(S(3,1))=-0.7780

m7
freq=1.8800GHz
dB(S(3,1))=-0.4535

m8
freq=1.7100GHz
dB(S(3,1))=-68.3861

m9
freq=1.7850GHz
dB(S(3,1))=-55.2147

m10
freq=1.9200GHz
dB(S(3,1))=-24.0099