

PRODUCT SPECIFICATION FOR INFORMATION

PRELIMINARY SPECIFICATION

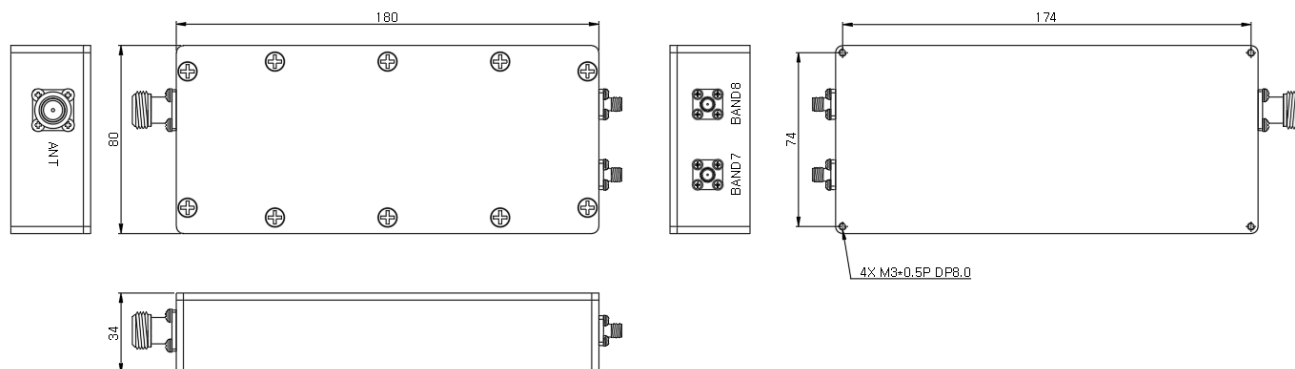
Product Name :Combiner 3_Diplexer

Part No : MDI-C3600-C5400_400M-1000MS-A-R0

■ History List

No.	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2025.04.14	Jeffrey Chung	Michael Jeon

■ Mechanical Drawing



NOTE

Input Connector : SMA(F) 4 Holes

Output Connector : N-Type(F)

Finish : Black painting

■ Electrical Specification

Item	Specification		Remark
	Band 7	Band 8	
1. Center Frequency	3600 MHz	5400 MHz	OK
2. Pass Band Frequency	$F_c \pm 200 [3400 \sim 3800] \text{MHz}$	$F_c \pm 500 [4900 \sim 5900] \text{MHz}$	OK
3. Insertion Loss	0.7dB Max.	0.7dB Max.	OK
4. Return Loss In/Out	15dB Min.	15dB Min.	OK
5. Isolation	50 dB		OK
6. In/Out Impedance	50 Ω		OK
7. Input Power	20W		OK
8. Operation Temperature Range	-20℃ to +65℃		OK
9. Application	Outdoor IP67		OK
10. Connector	SMA (F) / N(F)		OK
11. Size	180 x 80 x 34mm		Proposal
12. Finish	Black		OK

Remarks: This is a preliminary datasheet for reference. The final performance is subject to the sample.

■ Simulation Curve

Insertion loss

A1
freq=3.4000GHz
dB(S(2,1))=-0.3758

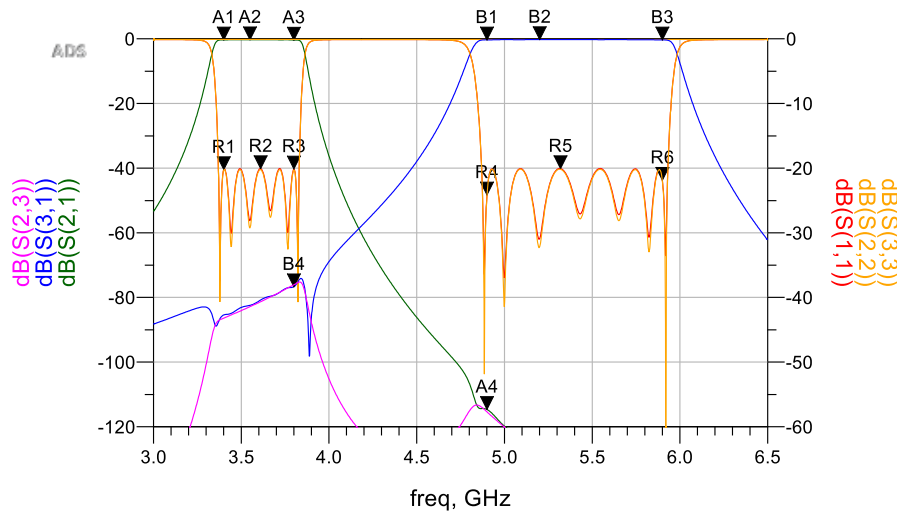
A2
freq=3.5500GHz
dB(S(2,1))=-0.2780
Max

A3
freq=3.8000GHz
dB(S(2,1))=-0.3990

B1
freq=4.9000GHz
dB(S(3,1))=-0.3293

B2
freq=5.2010GHz
dB(S(3,1))=-0.2378
Max

B3
freq=5.9000GHz
dB(S(3,1))=-0.3751



Rejection

A4
freq=4.9000GHz
dB(S(2,1))=-114.6621

B4
freq=3.8000GHz
dB(S(3,1))=-76.6863

Return loss

R1
freq=3.4000GHz
dB(S(1,1))=-20.2323

R2
freq=3.6100GHz
dB(S(1,1))=-20.0809

R3
freq=3.8000GHz
dB(S(1,1))=-20.1427

R4
freq=4.9000GHz
dB(S(1,1))=-24.1446

R5
freq=5.3190GHz
dB(S(1,1))=-20.0734

R6
freq=5.9000GHz
dB(S(1,1))=-21.8735