

PRODUCT SPECIFICATION FOR INFORMATION

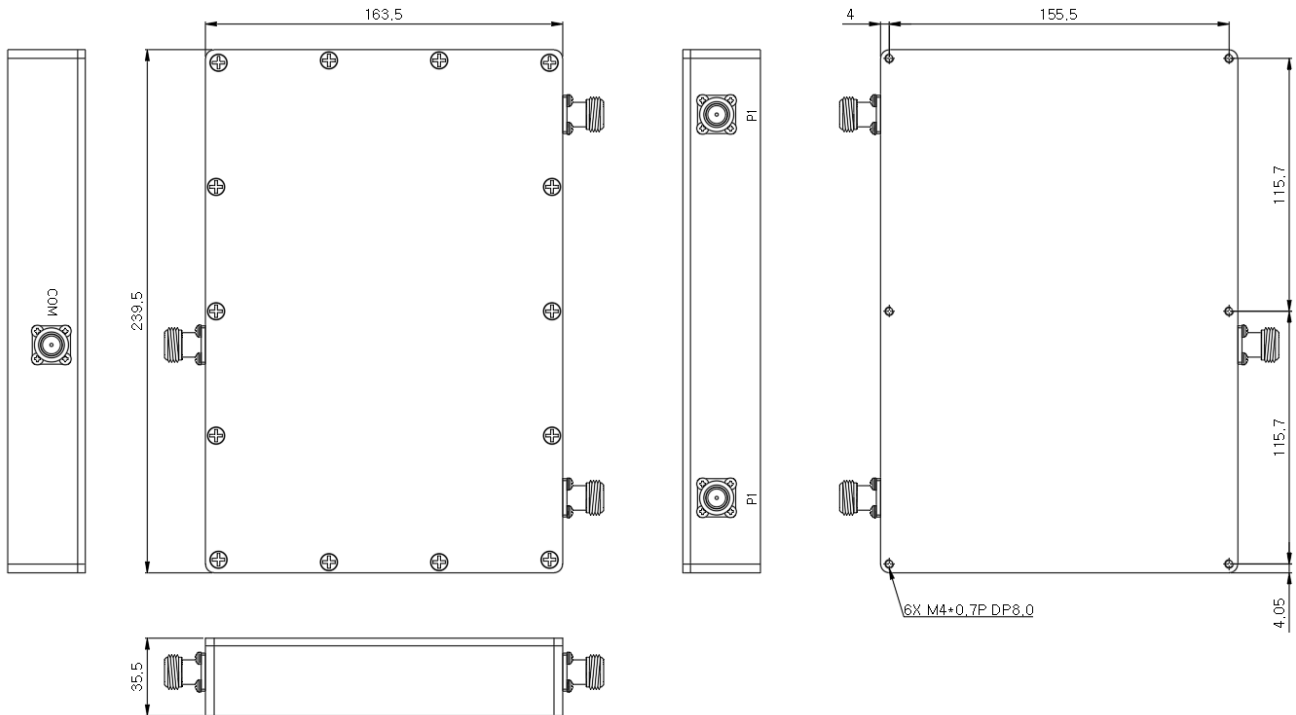
PRELIMINARY SPECIFICATION

Product Name : Diplexer

Part No : MDI-C1325-C2400_1250M-600MN-A-R0

No	Rev. No.	Description	Date	Author	Final Approver
1	R0	First Draft	2024.12.04	Jeffrey Chung	Michael Jeon

■ Mechanical Drawing



■ Electrical Specification

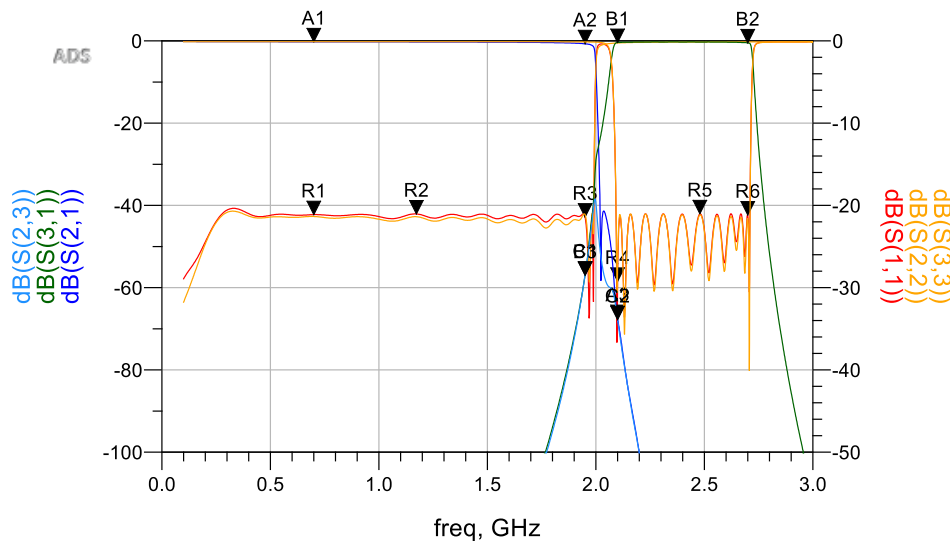
Item	Specification		Remark
	Port 1	Port 2	
1. Center Frequency	1325 MHz	2400 MHz	OK
2. Pass Band Frequency	$f_0 \pm 625 [700 \sim 1950] \text{ MHz}$	$f_0 \pm 300 [2100 \sim 2700] \text{ MHz}$	OK
3. Insertion Loss	1.0 dB Max.	0.8 dB Max.	Proposal
4. Return Loss	15dB Min.	15dB Min.	Proposal
5. Isolation Between Bands	50dB min.		OK
6. In/Out Impedance	50 Ω		OK
7. Power	150W	100W	OK
8. Operating Temperature	$-32^\circ\text{C} \sim +49^\circ\text{C}$		OK
9. Storage Temperature	$-40^\circ\text{C} \sim +85^\circ\text{C}$		OK
10. Dimension [WxDxH]	163.5 x 239.5 x 35.5 [mm]		Proposal
11. Connector	N(F)		OK
12. Application	Outdoor (IP67)		OK
13. Finish	Black Paint		OK

※ It is subjected to change its spec with prior notice

■ Simulation Data

Insertion loss
[dB]

A1 freq=700.0MHz dB(S(2,1))=-0.240	A2 freq=1.950GHz dB(S(2,1))=-0.724	B1 freq=2.100GHz dB(S(3,1))=-0.401	B2 freq=2.700GHz dB(S(3,1))=-0.512
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Isolation [dB]

A3 freq=2.100GHz dB(S(2,1))=-67.555	B3 freq=1.950GHz dB(S(3,1))=-57.044	C1 freq=1.950GHz dB(S(2,3))=-56.980	C2 freq=2.100GHz dB(S(2,3))=-67.813
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Return loss
[dB]

R1 freq=700.0MHz dB(S(1,1))=-21.127	R2 freq=1.173GHz dB(S(1,1))=-21.043	R3 freq=1.950GHz dB(S(1,1))=-21.425	R4 freq=2.100GHz dB(S(1,1))=-29.245	R5 freq=2.479GHz dB(S(1,1))=-21.027	R6 freq=2.700GHz dB(S(1,1))=-21.181
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