

PRODUCT SPECIFICATION FOR INFORMATION

PRELIMINARY SPECIFICATION

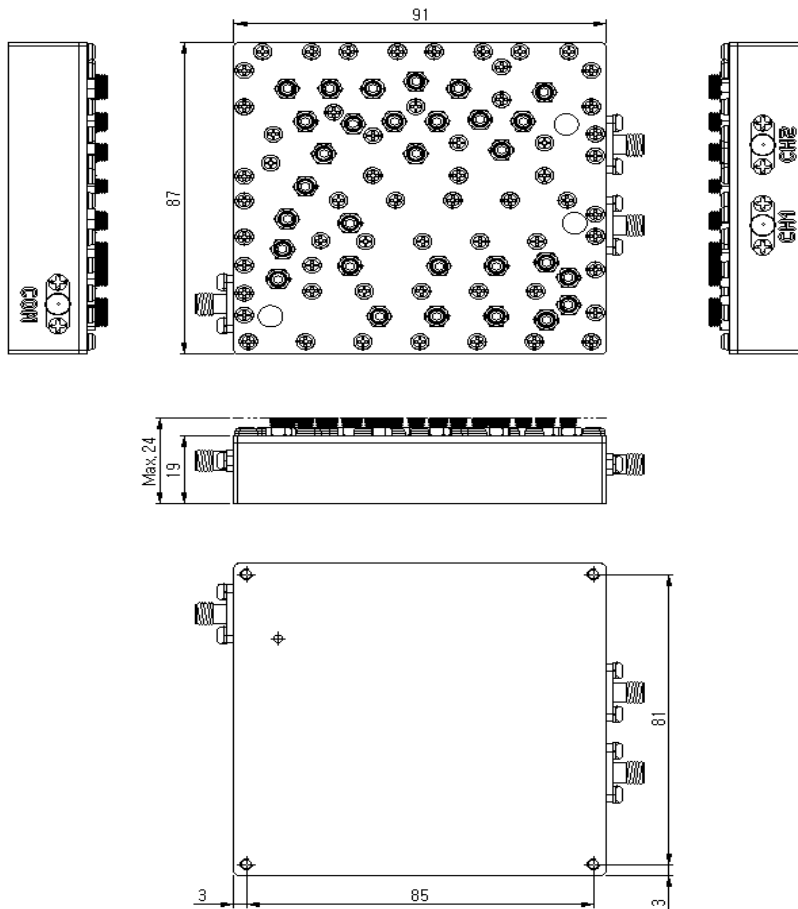
Product Name :BPF+LPF Diplexer

Part No : MDI-C3750-C1345_900M-2690MS-A-R0

■ History List

No.	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2025.02.12	Jeffrey Chung	Michael Jeon

■ Mechanical Drawing



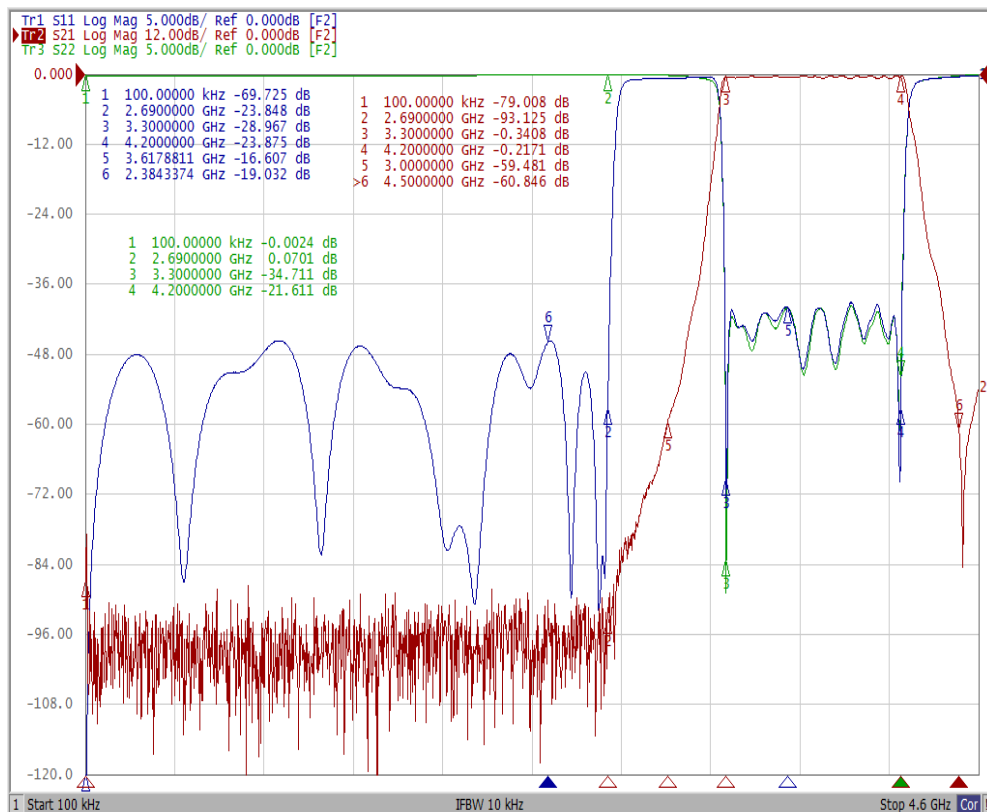
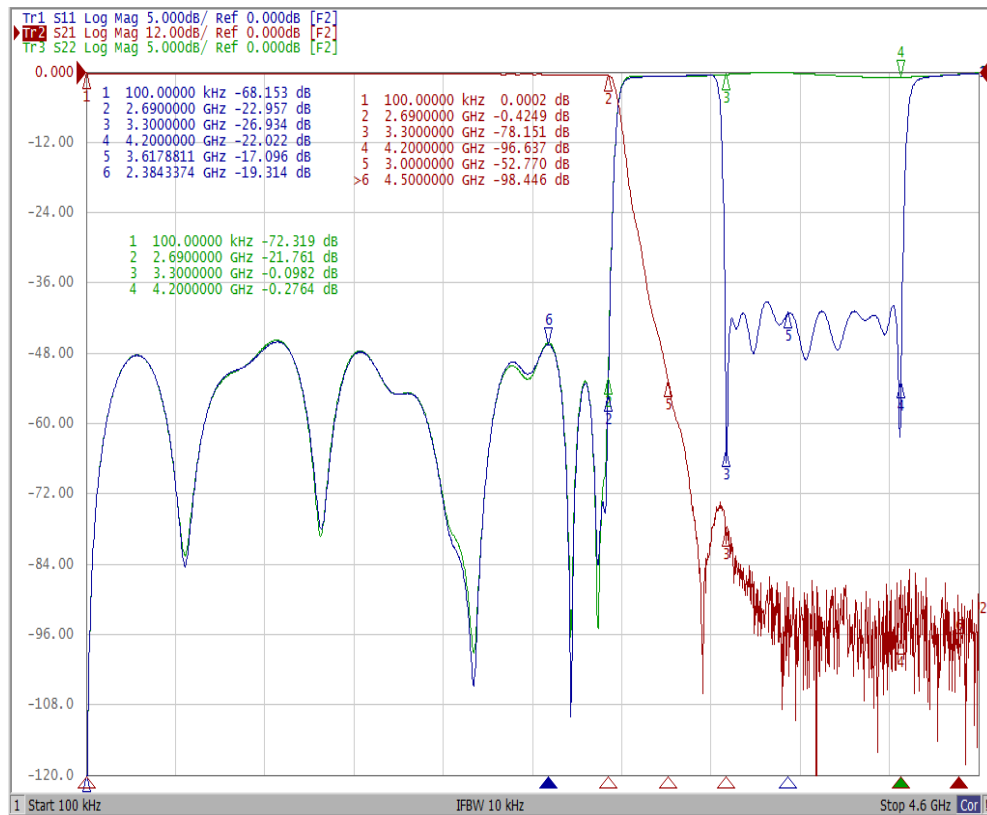
Note

1. Connector : SMA
2. Finish :Black Epoxy

■ Electrical Specification

Item	Specification		Remark
	BPF	LPF	
1. Center Frequency	3750MHz	1345MHz	OK
2. Pass Band Frequency	fo±450[3300~4200]MHz	DC-2690MHz	OK
3. Insertion Loss	0.6dB Max.	0.6dB Max.	OK
4. Return Loss In/Out	15dB Min.	18dB Min.	Proposal
5. In/Out Impedance	50 Ω		OK
6. Input Power	60W avg. 100W Peak.		OK
7. Attenuation [Absolute Value]	55dB min.@DC~3000MHz 55dB min.@4500MHz	55dB min.@3300~4200MHz	OK
8. Isolation between ports	65dB min		Proposal
8. Operation Temperature Range	-20℃ to +65℃		OK
9. Connector	SMA (F)		OK
10. Size	91 x 87 x 19 mm(Max.24mm)		OK
11. Finish	Black epoxy		OK

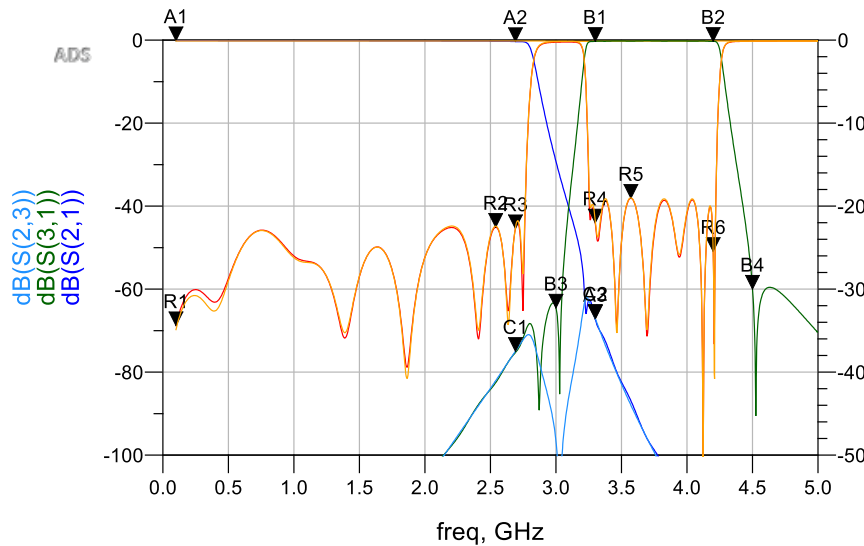
■ Test Curve



■ Simulation Curve

Insertion loss
[dB]

A1 freq=100.0MHz dB(S(2,1))=-0.139	A2 freq=2.690GHz dB(S(2,1))=-0.357	B1 freq=3.300GHz dB(S(3,1))=-0.293	B2 freq=4.200GHz dB(S(3,1))=-0.291
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Isolation [dB]

A3 freq=3.300GHz dB(S(2,1))=-67.236	B3 freq=3.000GHz dB(S(3,1))=-64.550	B4 freq=4.5000GHz dB(S(3,1))=-60.0059	C1 freq=2.690GHz dB(S(2,3))=-75.004	C2 freq=3.300GHz dB(S(2,3))=-67.050
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Return loss
[dB]

R1 freq=100.0MHz dB(S(1,1))=-34.400	R2 freq=2.540GHz dB(S(1,1))=-22.544	R3 freq=2.690GHz dB(S(1,1))=-22.706	R4 freq=3.300GHz dB(S(1,1))=-22.028	R5 freq=3.572GHz dB(S(1,1))=-19.057	R6 freq=4.200GHz dB(S(1,1))=-25.462
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