

PRODUCT SPECIFICATION FOR INFORMATION

PRELIMINARY SPECIFICATION

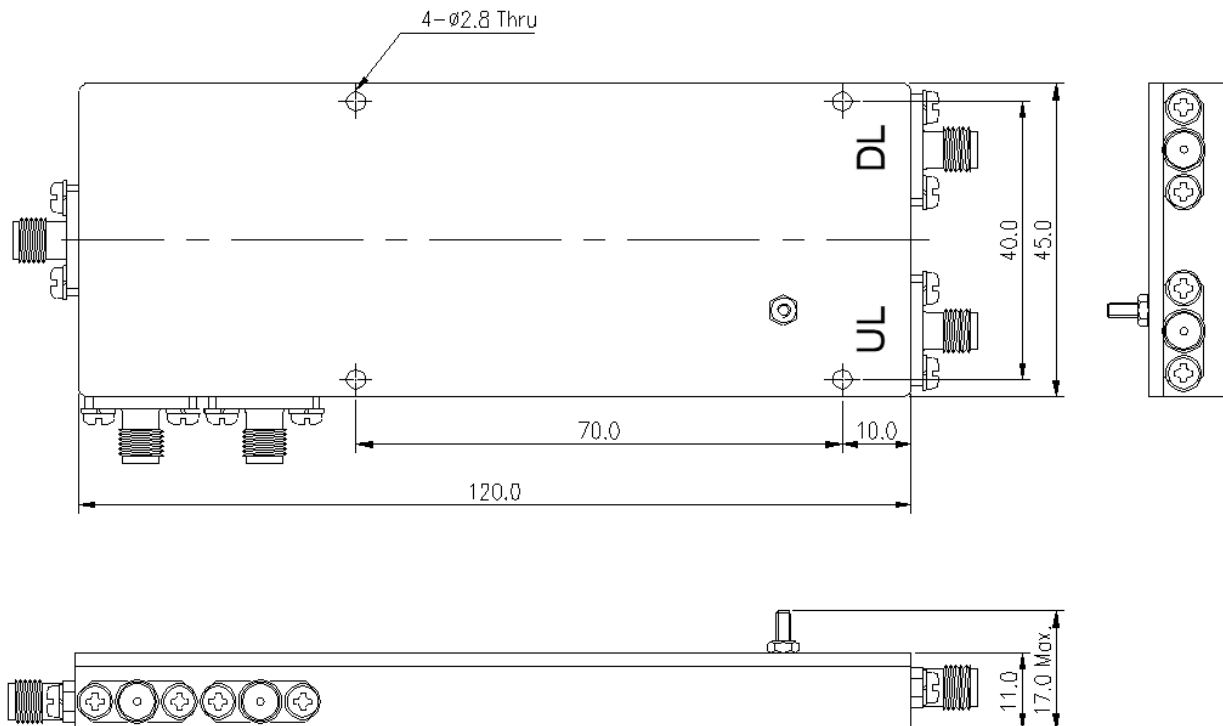
Product Name : X-Band Diplexer + Coupler

Part No : MDI-D10.95G-U10.55GS-A-R0

■ History List

No.	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2023.03.02	Jeffrey Jeong	Michael Jeon
2					
3					
4					
5					
6					

■ Mechanical Drawing

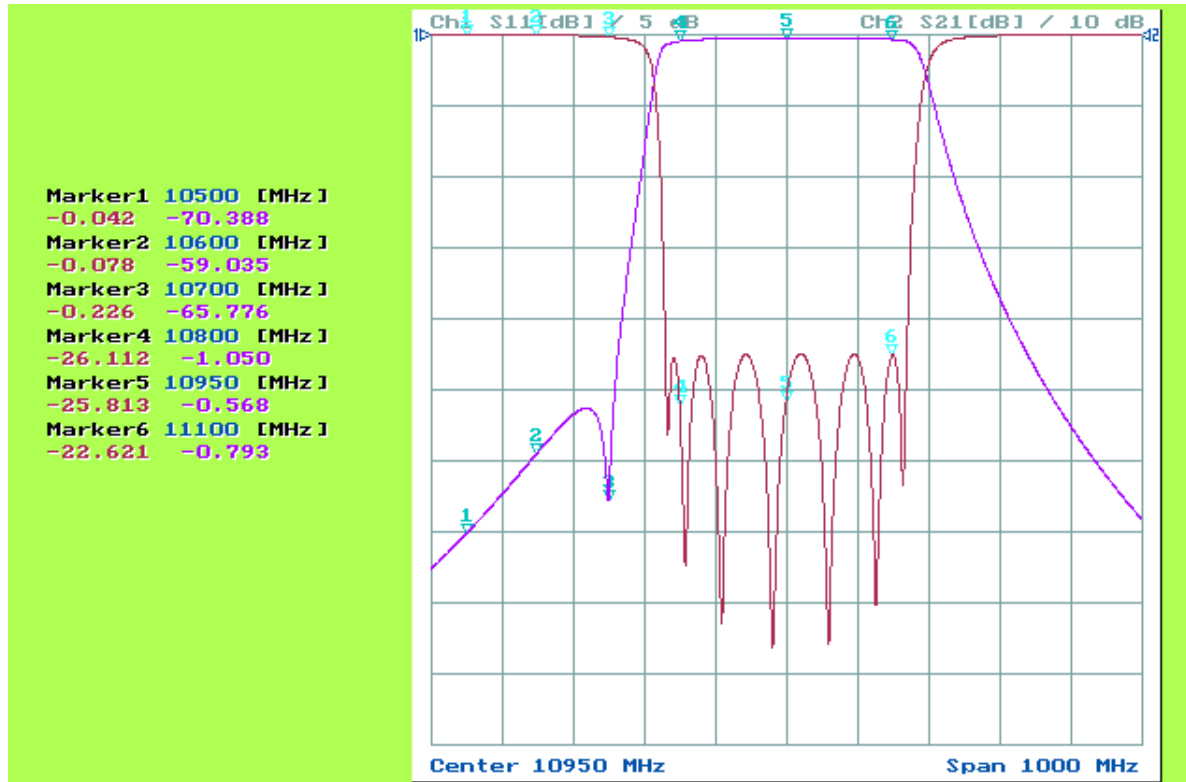


■ Electrical Specification

Parameter	Specification		Remark
	DL	UL	
1. Frequency Range	10.8~11.1GHz	10.5~10.6GHz	
2. Bandwidth	300MHz	100MHz	
3. Insertion Loss	1.5dB Max.		Proposed
4. Ripple	1.0dB Max.		Proposed
5. V.S.W.R. in BW band	1.3 : 1 Max.		
6. V.S.W.R. in BW common	1.3 : 1 Max.		Proposed
7. Attenuation	50dB Min @ 100MHz		
8. Cross Over Isolation	50dB Min @ 10.7GHz		
9. Group Delay Variation	6nSec Max.		Proposed
10. Power Handling	40W Max.		Proposed
11. Coupling	30dB±1.5dB		Proposed
12. In/Out Impedance	50Ω		
13. Temperature Range	-40°C ~ +55°C		Proposed
14. Connectors	SMA(F)		
14. Dimension[WxDxH]	120 X 45 X 17mm Max		
15. Finish	White Chromate		

※It is subjected to change with prior notice.

■ Simulation Curve

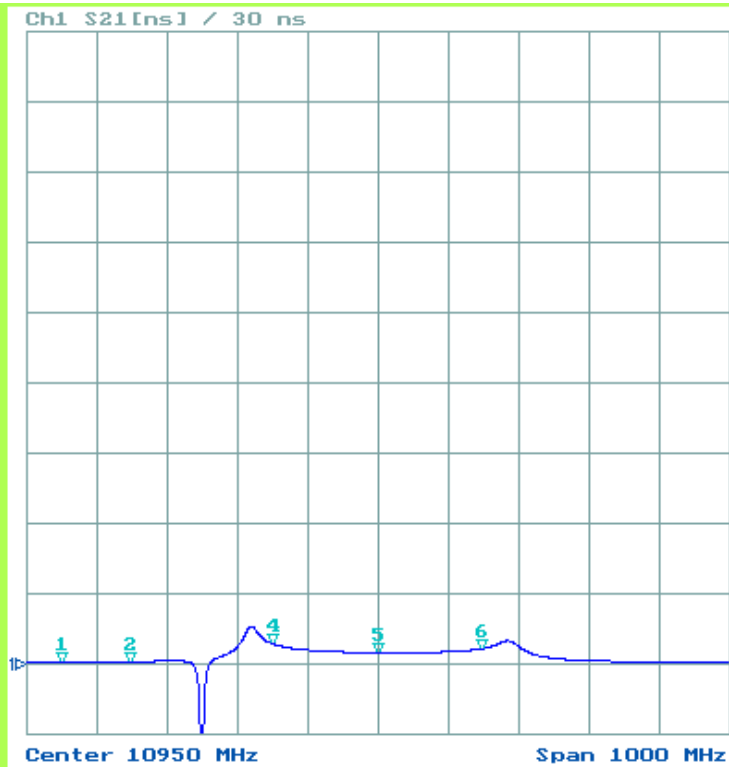


DL



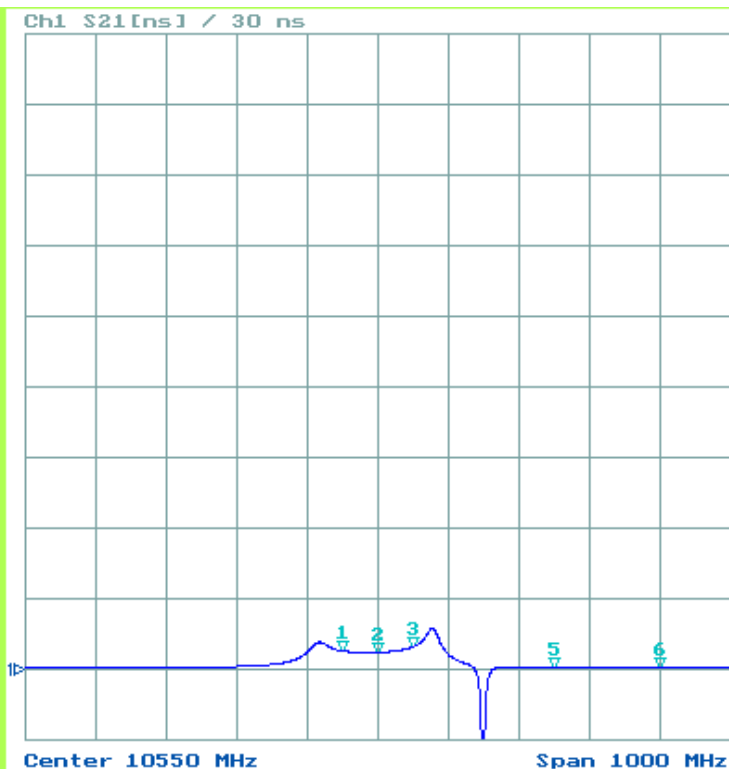
UL

Marker1 10500 [MHz]
 0.342
 Marker2 10600 [MHz]
 0.623
 Marker3 10700 [MHz]
 -67.837
 Marker4 10800 [MHz]
 8.325
 Marker5 10950 [MHz]
 4.456
 Marker6 11100 [MHz]
 6.150



DL Group Delay

Marker1 10500 [MHz]
 7.414
 Marker2 10550 [MHz]
 6.788
 Marker3 10600 [MHz]
 9.167
 Marker4 10700 [MHz]
 -70.834
 Marker5 10800 [MHz]
 0.431
 Marker6 10950 [MHz]
 0.166



UL Group Delay