PRODUCT SPECIFICATION FOR INFORMATION

PRELIMINARY SPECIFICATION

Product Name: GDT Band Pass Filter

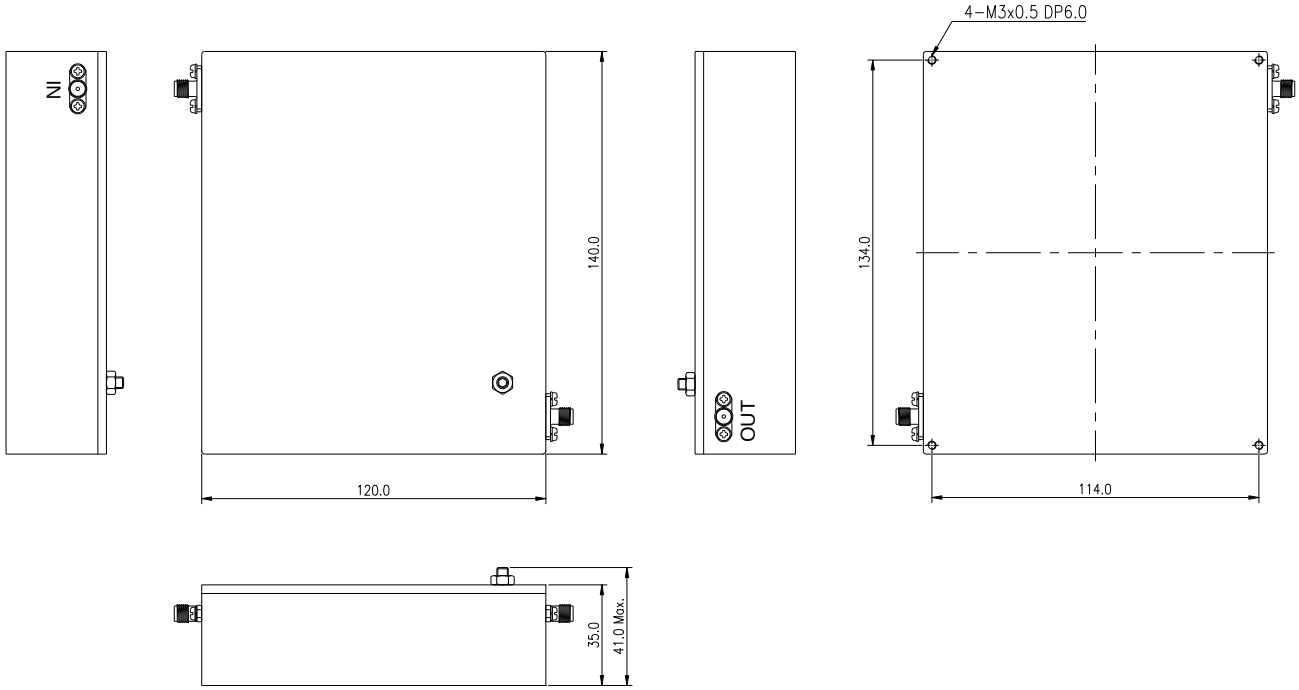
Part No: MBP-C2795_210MS-C-R0

■ **History List**

No.	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2024.04.09	Jeffrey Chung	Michael Jeon

Copyright ⓒ 2013-2024 MISOTECH. All rights reserved

■ Mechanical Drawing



■ Environmental Qualification Standard

Parameter	Specification
Temperature High	Operating: +85°C MIL-STD-810F, method 501.4, proc. II
Temperature Low	Operating: –40°C MIL-STD-810F, method 502.4, proc. I
Humidity	Temperature: +30°C - +60°C RH: 95% MIL-STD-810F, method 507.4, procedure I
Salt fog	Salt Solution 6.5-7.2 pH at 35°C MIL-STD-810F, method 509.4
Fungus	MIL-STD-810G, method 508.5. (or accordance MIL-HDBK-454B, Guideline 4)
Rain	Rainfall rate of 100 [mm/hour] MIL-STD-810F, method 506.4, proc. I
Vibration (Transportation)	MIL-STD-810G method 514.6 Figure 514.5C-9 and in accordance with Table 3 and Figure 9
Temperature/Altitude	Operation: 35,000 feet Storage : 40,000 feet

Copyright ⓒ 2013-2024 MISOTECH. All rights reserved

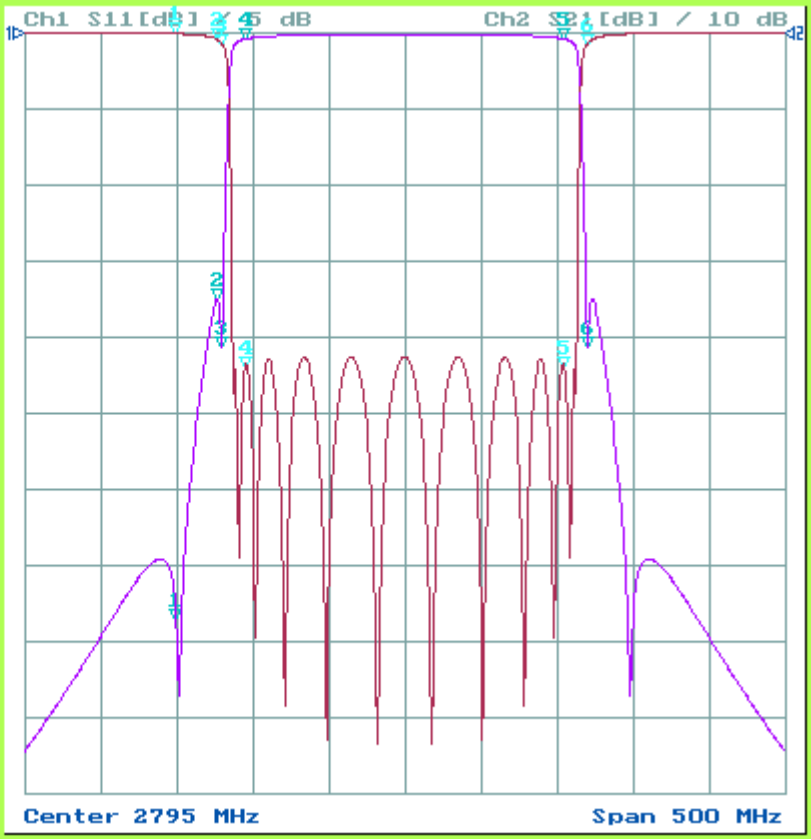
■ Electrical Specification

Parameter	Specification	Remark
1. Center Frequency	2795MHz	OK
2. Frequency Range	Fc ± 105 [2690~2900] MHz	OK
3. Insertion Loss	1.0dB Max. Room. 1.2dB Max. Temp.	OK
4. Return Loss	14dB Min.	OK
5. Group Delay (Deviation)	80ns Max.	OK
6. Rejection	32 dBc Min. @ 2675MHz	Proposal
	32 dBc Min. @ 2915MHz	Proposal
	65 dBc Min. @ DC-2645MHz	Proposal
	70 dBc Min. @ 3050-6200MHz	OK
	50 dBc Min. @ 6300-11600MHz	OK
7. Continuous power handling	30W Max.	OK
8. In/Out Impedance	50 Ohms nominal	OK
9. Operation Temperature Range	-40℃ ~ +85℃	OK
10.Humidity	Up to 95% RH @35deg C	OK
11.Altitude	Up to 10,000 feet	OK
12. Dimension [WxDxH] [mm]	140.0x120.0x35.0	OK
13. Weight	1.1kg Max.	OK
14. Connectors	SMA(F)	OK
15. Finish	Black Epoxy Coating	OK

Copyright ⓒ 2013-2024 MISOTECH. All rights reserved

■ Simulation Curve

Marker1 2645 [MHz]
-0.112 -77.268
Marker2 2671.5 [MHz]
-0.483 -35.093
Marker3 2675 [MHz]
-0.796 -41.354
Marker4 2690 [MHz]
-22.007 -0.949
Marker5 2900 [MHz]
-22.007 -0.949
Marker6 2915 [MHz]
-0.796 -41.354



Copyright ⓒ 2013-2024 MISOTECH. All rights reserved