

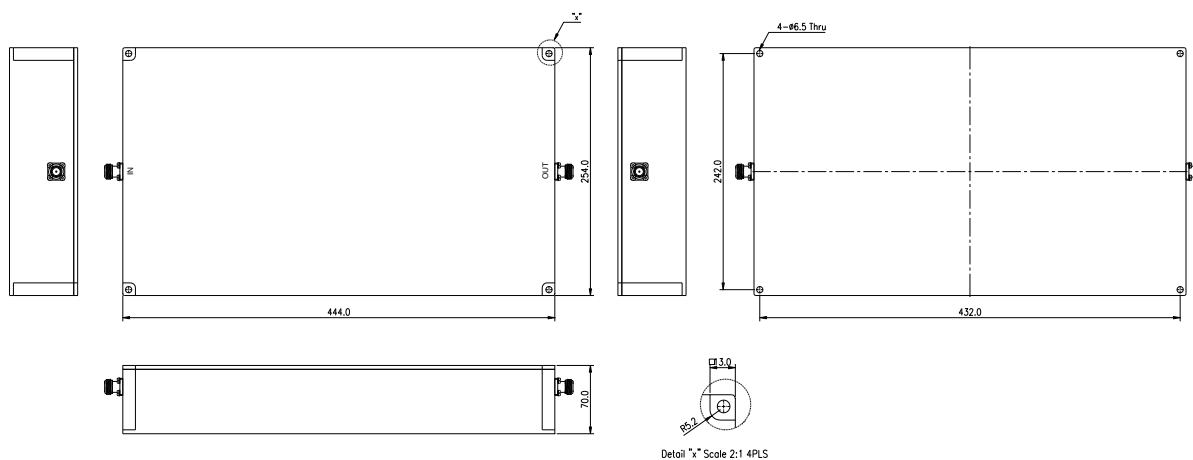
PRODUCT SPECIFICATION FOR INFORMATION

PRELIMINARY SPECIFICATION

Product Name : Band Pass Filter
Part No : MBP-C1223_114MN-A-R0

	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2024.09.23	Jeffrey Chung	Michael Jeon

■ Mechanical Drawing



■ Electrical Specification

Parameter	Specification	Remark
1. Center Frequency	1223 MHz	OK
2. Bandwidth [BW]	$F_c \pm 57\text{MHz}$ [1166~1280MHz]	OK
3. Insertion Loss in BW	0.6dB Max.	Proposal
4. Ripple (pass band)	$\pm 0.2\text{dB}$ Max.	Proposal
5. Return Loss	12dB Min.	OK
6. Rejections	80dB Min.@ DC~ 1144MHz	OK
	40dB Min.@ 1100MHz	OK
	3dB Min.@ 1150MHz	OK
	3dB Min.@ 1285MHz	OK
	40dB Min.@ 1290 MHz	OK
	80dB Min.@ 1308~ 6000MHz	OK
7. In/Out Impedance	50 Ohm	OK
8. Power Handling	CW 700Watt	OK
9. Dimension [WxDxH]	254.0 x 444.0 x 69.0 mm	Proposal
10. Weight	About 7kg Max.	Proposal
11. Connector	N(F)	OK
12. Finish	TBD	TBD

Remarks: This is a preliminary datasheet for reference.

■ Environmental Specification

Parameter	Specification		Applicable Standard	Remark
	Non Operating	Operating		
1. Temperature (Ambient)	-20 ~ +71°C	-10 ~ +71°C	MIL-STD-810G1, Methods 501.6&502.6, Procedures I & II	OK
2. Humidity	Up to 95%RH (including condensation)		MIL-STD-810F, Method 507.4	OK
3. Altitude	Up to 15,000 feet	Up to 9,000 feet	MIL-STD-810F, Method 500.4, Proc. I (Storage) and Proc. II (Operation)	OK
4. Salt Fog	5% NaCl solution for 500 hrs		MIL-STD-810F, Method 509.4	OK
5. Fungus	Fungi-inert materials shall be used		MIL-HDBK-454B, Guideline 4	OK
6. Vibration	Transportation: Figure 514.5C-1, 60min/axis	NA	MIL-STD-810F Method 514.5 Procedure I	OK
7. Mechanical Shock	Transportation: 1.22m, 26 drops	NA	MIL-STD-810F Method 516.5, Procedure IV	OK
8. Dust	Dust – 6 Hours in room temperature 6 hours in high temperature		MIL-STD-810F, Method 510.4, Proc. I&II	OK
9. Drip	Drip (for partly protected equipment)		MIL-STD-810G, Method 506.6 Procedure III	OK

Simulation Curve

