

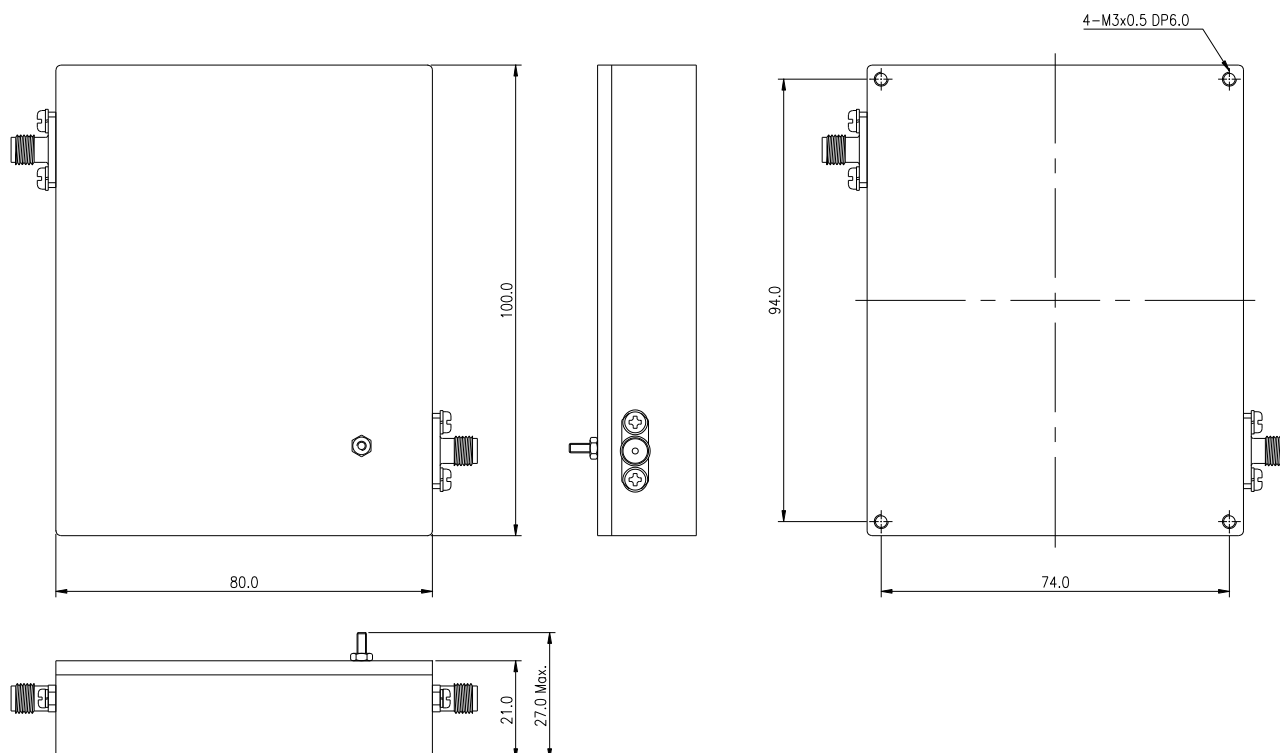
PRODUCT SPECIFICATION FOR INFORMATION

PRELIMINARY SPECIFICATION

Product Name : Band Pass Filter
Part No : MBP-C2450_500MS-A-R1

	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2024.03.04	Jeffrey Chung	Michael Jeon
2	R1	Changed size	2024.03.18	Jeffrey Chung	Michael Jeon

■ Mechanical Drawing



■ Electrical Specification

Parameter	Specification	Remark
1. Center Frequency	2450 MHz	OK
2. Bandwidth [BW]	$F_c \pm 250\text{MHz}$ [2200~2700MHz]	OK
3. Insertion Loss in BW	1.0dB Max.	OK
4. Pass band Return loss	20.0dB Min.	OK
5. Rejections	70dB Min. @ DC~2000MHz	OK
	30dB Min. @ 2150MHz	OK
	30dB Min. @ 2750MHz	OK
	70dB Min. @ 2900~8500MHz	OK
6. In/Out Impedance	50 Ohm	OK
7. Power Handling	CW 10W Max.	OK
8. Dimension [WxDxH]	100.0x 80.0x 27.0mm	OK
9. Connector	SMA(F)	OK
10. Finish	Black	OK

Remarks: This is a preliminary datasheet for reference.

■ Environmental Specification

Parameter	Specification	Remark
1.Temperature High	Operating: +85°C MIL-STD-810F, method 501.4, proc. II	OK
2.Temperature Low	Operating: -40°C MIL-STD-810F, method 502.4, proc. II	OK
3.Humidity	Temperature: +30°C - +60°C RH: 95% MIL-STD-810F, method 507.4, procedure I	OK
4.Salt fog	Salt Solution 6.5-7.2 pH at 35°C MIL-STD-810F, method 509.4	OK
5.Rain	Rainfall rate of 100 [mm/hour] MIL-STD-810F, method 506.4, proc. I	OK
6.Vibration (Transportation)	MIL-STD-810F method 514.5 category 6	OK
7.Shock	basic shock of 20G, saw tooth for 11 msec MIL-STD-810F, method 516.5, proc. I	OK
8.Crash Safety Shock (Impulse)	The Filter shall be tested when subjected to 6 shocks, 1 in each opposite direction along each of three orthogonal axes. Each shock impulse shall have time duration of 11 msec, half sine pulse, and acceleration peak value of 20g.	OK

■ Simulation Curve

