

PRODUCT SPECIFICATION FOR INFORMATION

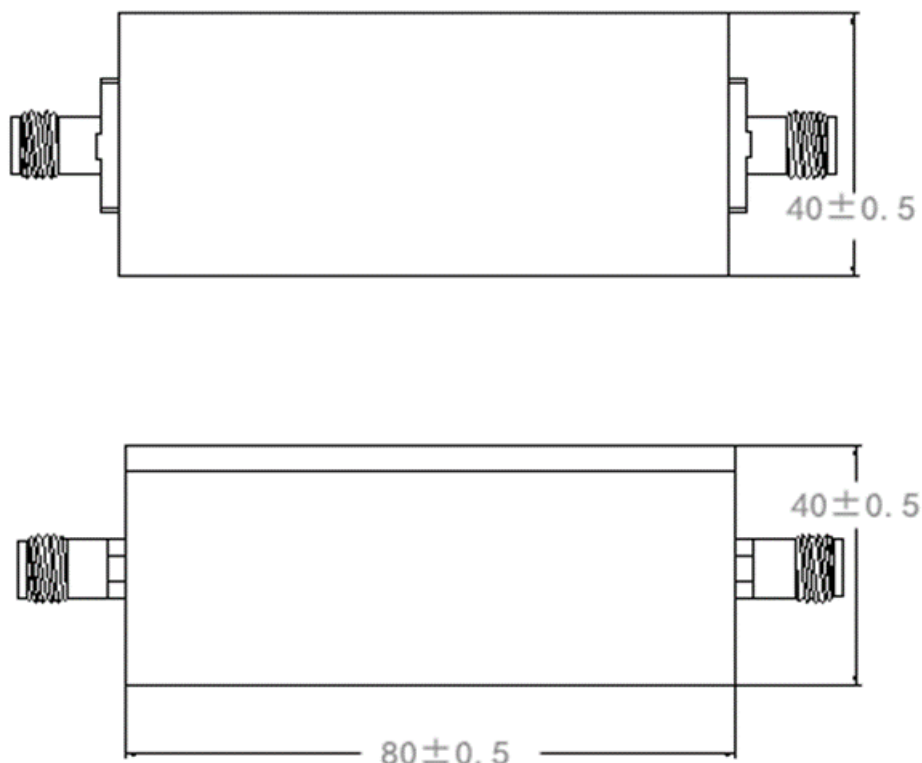
PRELIMINARY SPECIFICATION

Product Name : Band Pass Filter

Part No : MBP-C500_10MS-A-R0

	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2024.03.26	Jeffrey Chung	Michael Jeon

■ Mechanical Drawing



■ Electrical Specification

Parameter	Specification	Remark
1. Center Frequency	500 MHz	OK
2. Bandwidth [BW]	$F_c \pm 5\text{MHz}$ [495~505MHz]	OK
3. Insertion Loss in BW	2.0dB Max.	OK
4. Return Loss	20dB Min.	OK
5. Rejections	50dBc Min.@ DC ~ 350MHz	OK
	25dBc Min.@ 400 ~ 490MHz	OK
	25dBc Min.@ 510 ~ 600MHz	OK
	50dBc Min.@ 650 ~ 850 MHz	OK
6. In/Out Impedance	50 Ohm	OK
7. Power Handling	10 Watt CW	OK
8. Dimension [WxDxH]	40.0 x 80.0 x 40.0 mm	OK
9. Weight	250g max.	OK
10. Interface	SMA (F)	OK
11. Material	Aluminum	OK
12. Finish	Epoxy Black	OK

Remarks: This is a preliminary datasheet for reference.

■ Environmental Specification

Parameter	Specification	Remark
1. Operation Temperature Range	-40 ~ +85°C	OK
2. Humidity	Temperature: +30°C ~ +60°C RH: 95% MIL-STD-810F, method 507.4, procedure I	OK
3. Salt fog	Salt Solution 6.5-7.2 pH at 35°C MIL-STD-810F, method 509.4	TBD
4. Vibration (Transportation)	MIL-STD-810F method 514.5 category 6	OK
5. Shock	basic shock of 20G, saw tooth for 11 msec MIL-STD-810F, method 516.5, proc. I	OK
6. Temperature/Altitude	Operation: 30,000 feet Storage : 40,000 feet	OK

■ Simulation Curve

