

PRODUCT SPECIFICATION FOR INFORMATION

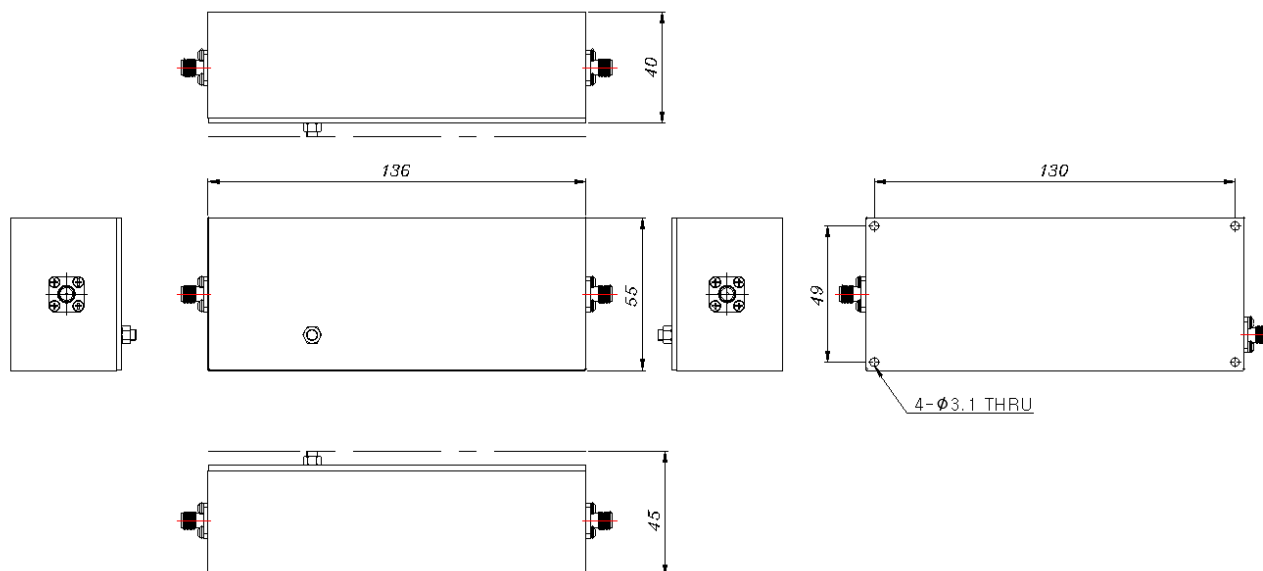
PRELIMINARY SPECIFICATION

Product Name : Cavity Band Pass Filter

Part No : MBP-C950_100MS-A-R0

	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2026.01.20	Jeffrey Chung	Michael Jeon

■ Mechanical Drawing



■ Electrical Specification

Parameter	Specification	Remark
1. Center Frequency	950MHz	OK
2. Bandwidth [BW]	$F_c \pm 50\text{MHz}$ [900~1000MHz]	OK
3. Insertion Loss in BW	0.4dB Typ. 0.6dB Max.	Proposal
4. Return Loss	20.0dB min	OK
5. Rejections	90dBc Min @ DC~780MHz	OK
	50dBc Min @ 840MHz	OK
	20dBc Min @ 880MHz	OK
	20dBc Min @ 1020MHz	OK
	50dBc Min @ 1080MHz	OK
	90dBc Min @ 1100~3000MHz	OK
6. Impedance	50Ohm	OK
7. Power Handling	2W Max.	OK
8. Size (W × D × H)	136.0 x 55.0 x 40.0mm (max.45.0) mm	Proposal
9. Connector	SMA (F) (Stainless steel)	OK
10. Finish	Black Epoxy	TBD

Remarks: This is a preliminary datasheet for reference.

■ Environmental Specification

Parameter	Specification	Remark
1. Operating Temperature	-45°C ~+85°C	OK
2. Storage Temperature	-55°C ~+95°C	OK
3. Altitude	1200ft ~ 40kft	OK
4. Shock	MIL-STD-810F, Method 516.5, 40G, non-operational mode	OK
5. Vibration	MIL-STD-202F, Method 214. Test condition letter E 16.9G RMS	OK
6. Humidity	MIL-STD-810F, Method 507.4 ,95% RH, with condensation (Temp change 30-60°C)	OK

■ Simulation Data

