

PRODUCT SPECIFICATION FOR INFORMATION

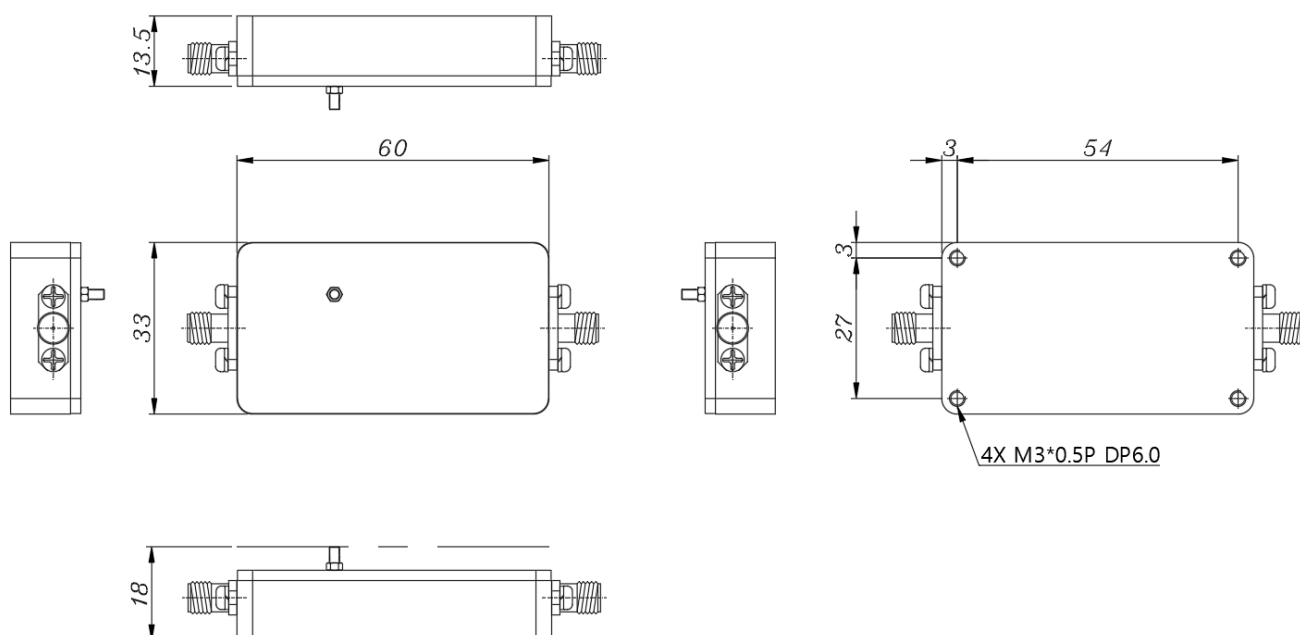
PRELIMINARY SPECIFICATION

Product Name : Ku-Band Cavity Filter

Part No : MBP-C14.125_0.75GS-A-R0

	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2026.03.11	Jeffrey Chung	Michael Jeon

■ Mechanical Drawing



■ Electrical Specification

Parameter	Specification	Remark
1. Center Frequency	14.125GHz	OK
2. Bandwidth [BW]	$F_c \pm 0.375\text{GHz}$ [13.75~14.5GHz]	OK
3. Insertion Loss in BW	0.5dB Max.	OK
4. Return Loss	19.1dB(VSWR 1.25:1) min	OK
5. Rejections	80dB Min @ 10.7~12.75GHz	OK
6. Impedance	50Ohm	OK
7. Operating Temperature	-30°C ~ +55°C	OK
8. Power Handling	CW 50W Max.	OK
9. Connector	SMA (F)	OK
10. Dimension	60 X 33 X13.5(18)mm	Proposal
11. Finish	Black Epoxy	TBD

Remarks: This is a preliminary datasheet for reference.

Simulation Data

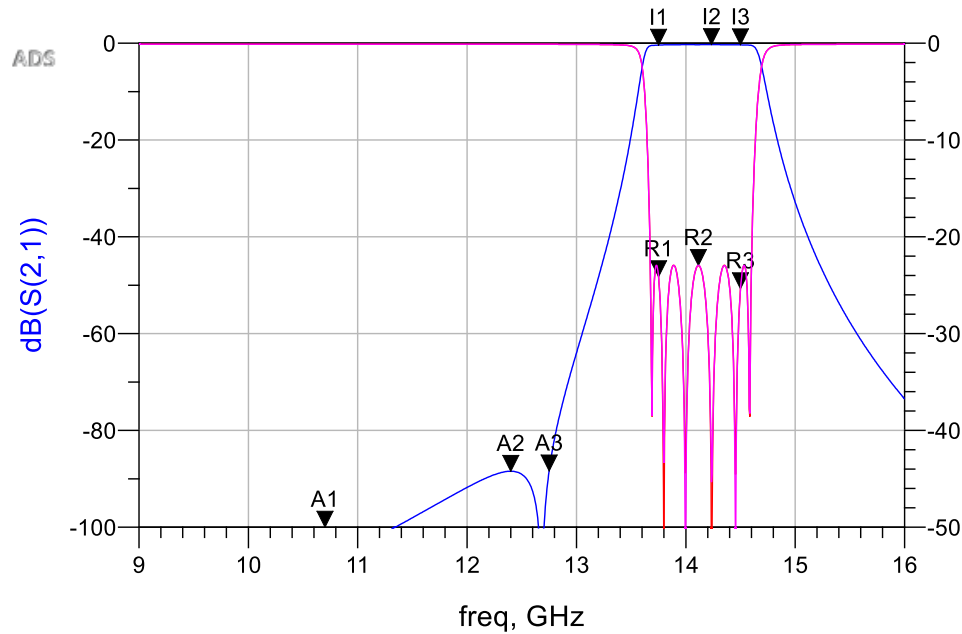
Insertion loss
[dB]

I1
freq=13.750GHz
dB(S(2,1))=-0.4045

I2
freq=14.235GHz
dB(S(2,1))=-0.2949
Max

I3
freq=14.500GHz
dB(S(2,1))=-0.3520

IL_max	IL_Ripple
-0.40	-0.11



Rejection [dB]

A1
freq=10.700GHz
dB(S(2,1))=-107.4418

A2
freq=12.400GHz
dB(S(2,1))=-88.4458

A3
freq=12.750GHz
dB(S(2,1))=-88.3702

Return loss
[dB]

R1
freq=13.750GHz
dB(S(1,1))=-24.1262

R2
freq=14.115GHz
dB(S(1,1))=-22.9655

R3
freq=14.500GHz
dB(S(1,1))=-25.3632