PRODUCT SPECIFICATION FOR INFORMATION

PRELIMINARY SPECIFICATION

Product Name : Cavity Band Pass Filter

Part No : MBP-C3250_500MS-A-R1

■ **History List**

No.	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2021.11.15	Bryan Jeon	Michael Jeon
2	R1	1.Added the attenuation specification. 2.has changed filter size from 120x32x19 to 50x40x20 3.has changed out port connector type from sma(f) to sma(m)	2021.12.23	Bryan Jeon	Michael Jeon

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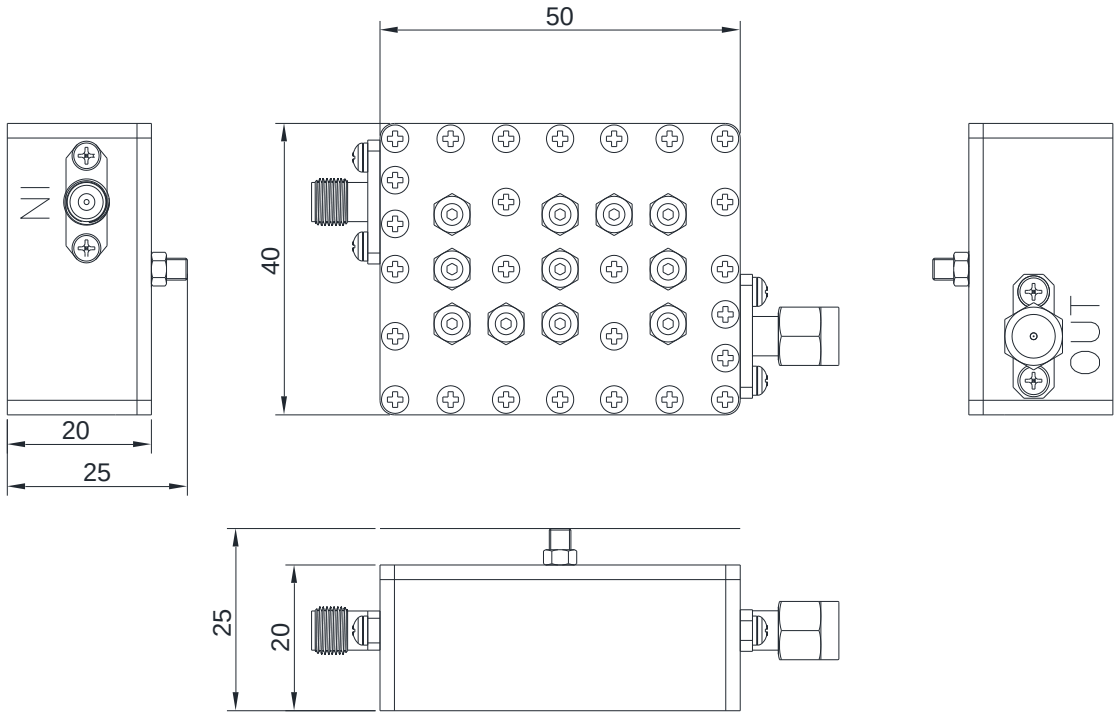
■ Mechanical Drawing



Note
1. Connector : In/SMA(f) ,Out /SMA(m)
2. Finish :Black Epoxy

■ Electrical Specification

Parameter	Specification	Remark
1. Center Frequency	3250MHz	
2. Frequency Range	Fc ±250[3000~3500]MHz	
3. Insertion Loss	0.4dB typ ,0.6dB Max.	
4. Pass Band Ripple	0.3dB Max.	
5. Return Loss	16dB Min.	
6. Group Delay Variation over Pass Band	2.5ns Max.	
7. Rejection	5dBc Min.@ Fc±400MHz	
	20dBc Min.@ Fc±500MHz	
	30dBc Min.@ Fc±650MHz	
	55dBc Min.@ Fc±1150MHz	
8. Power Handling	33dBm CW Max. & 40dBm Peak 1% D.C. over the band : 2~9600MHz	
9. Input / Output Impedance	50Ω	
10. Size	50.0 × 40.0 × 20.0mm (Without Connector & Tuning Bolt)	
11. Operation Temperature Range	-10℃ to +65℃	

Remarks: This is a preliminary datasheet for reference.

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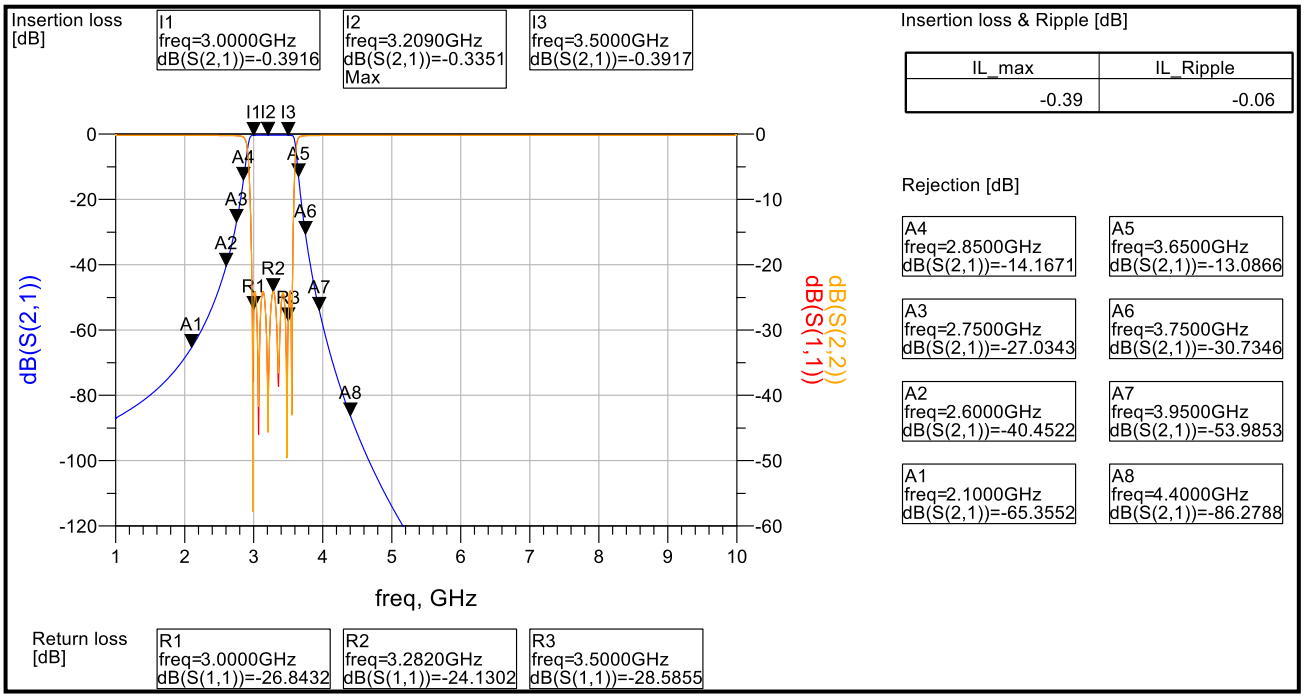
■ Simulation Curve

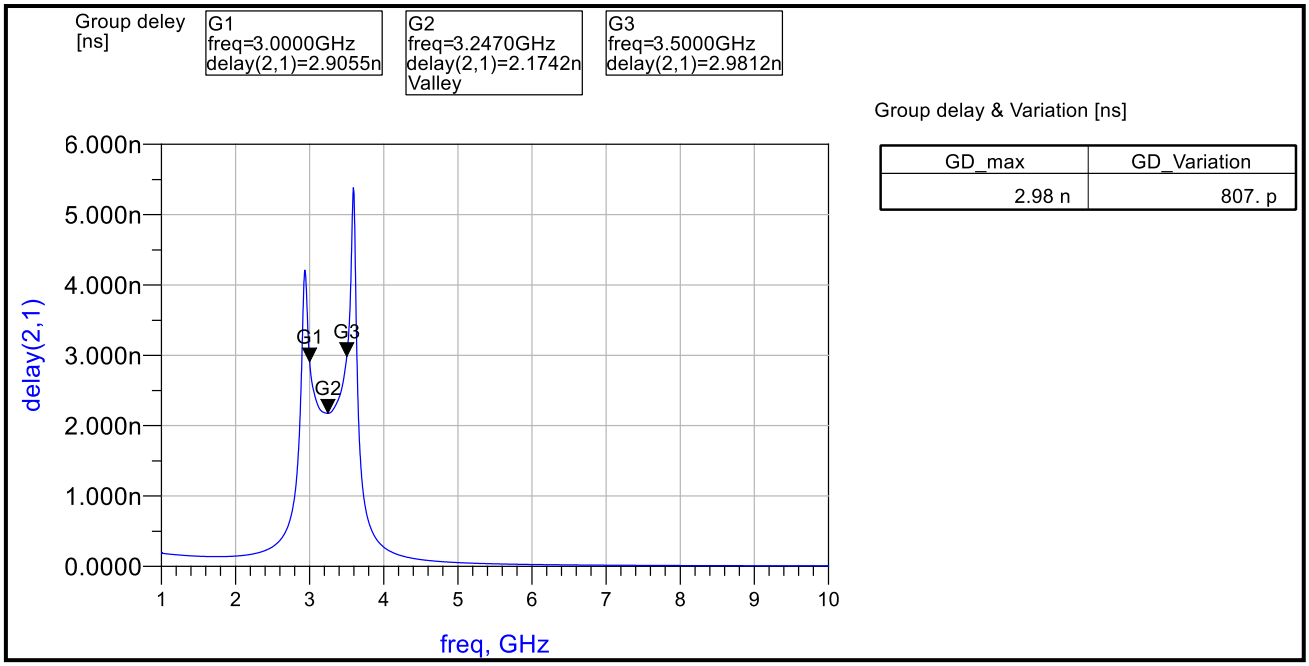


Insertion loss & Ripple [dB]

IL_max	IL_Ripple
-0.39	-0.06

Rejection [dB]

A4 freq=2.8500GHz dB(S(2,1))=-14.1671	A5 freq=3.6500GHz dB(S(2,1))=-13.0866
A3 freq=2.7500GHz dB(S(2,1))=-27.0343	A6 freq=3.7500GHz dB(S(2,1))=-30.7346
A2 freq=2.6000GHz dB(S(2,1))=-40.4522	A7 freq=3.9500GHz dB(S(2,1))=-53.9853
A1 freq=2.1000GHz dB(S(2,1))=-65.3552	A8 freq=4.4000GHz dB(S(2,1))=-86.2788



Group delay & Variation [ns]

GD_max	GD_Variation
2.98 n	807. p

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