

PRODUCT SPECIFICATION FOR INFORMATION

PRELIMINARY SPECIFICATION

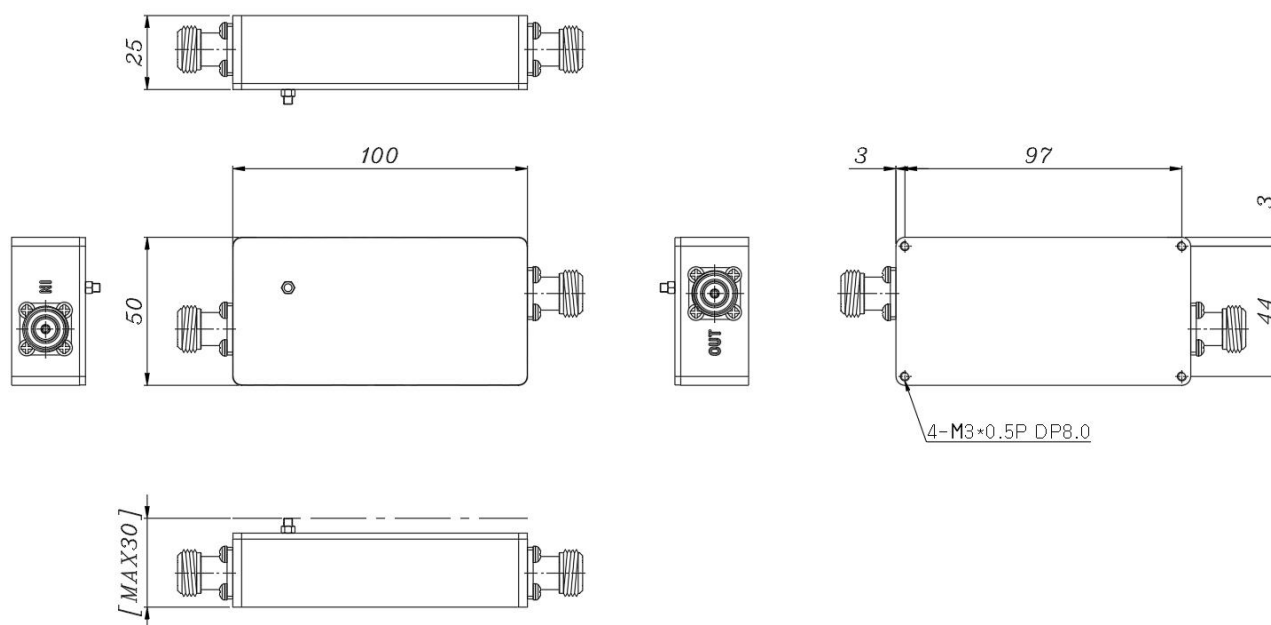
Product Name : Cavity Band Pass Filter

Part No : MBP-C871_18MN-A-R0

■ History List

No.	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2026.04.28	Jeffrey Chung	Michael Jeon

■ Mechanical Drawing



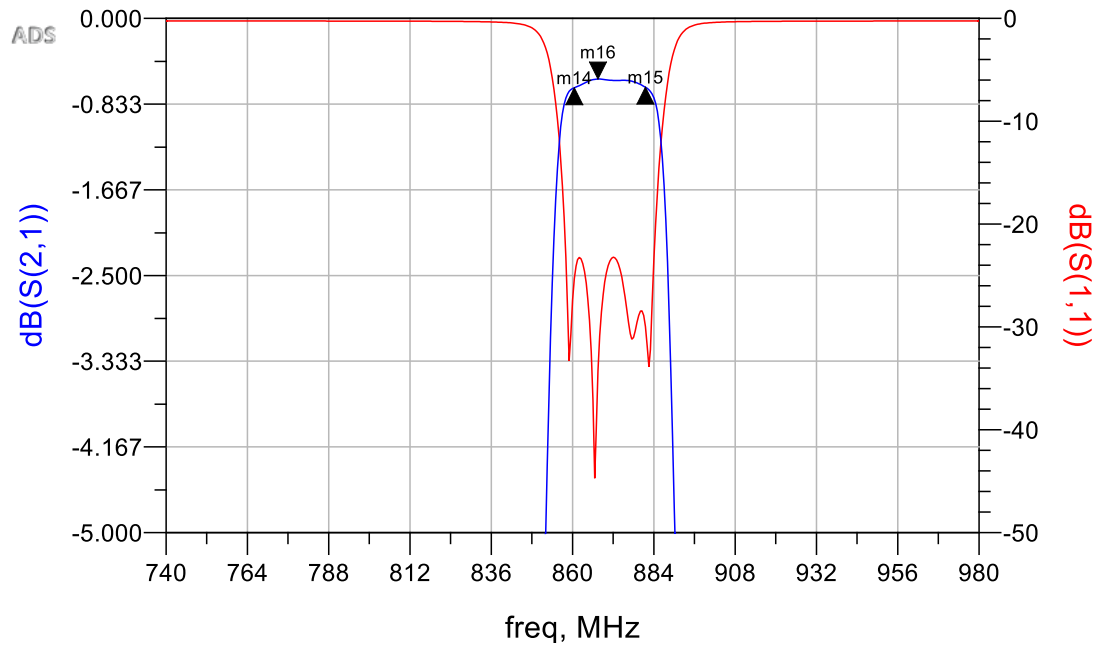
■ Electrical Specification

Parameter	Specification	Remark
1. Center Frequency	871MHz	OK
2. Pass Band	$F_c \pm 9[862 \sim 880]$ MHz	OK
3. Insertion Loss	2.5dB Max.	OK
4. Ripple	1dB Max.	OK
5. Return Loss	15dB Min.	OK
6. Rejections	50dB min. @ 20~350MHz	OK
	75dB min. @ 401~441MHz	OK
	65dB min. @ 580~698MHz	OK
	50dB Min. @ 1000~3000 MHz	OK
7. Input / Output Impedance	50Ω	OK
8. Power	CW 25W	OK
9. Operating temp	-10 to +85°C	OK
10. Connector	N-Type(F)	OK
11. Size	100.0x50.0x25.0mm [MAX 30.0mm]	OK
12. Finish	Black epoxy	TBD

Remarks: This is a preliminary datasheet for reference.

■ Simulation Curve

m14 ind Delta=-7.0000E6 dep Delta=-0.0848 Delta Mode ON	m15 ind Delta=1.4000E7 dep Delta=-0.0795 Delta Mode ON	m16 freq=867.50MHz dB(S(2,1))=-0.5900 Peak
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m3 freq=350.00MHz dB(S(2,1))=-102.7837	m4 freq=441.00MHz dB(S(2,1))=-100.2459	m5 freq=698.00MHz dB(S(2,1))=-78.4275	m12 freq=1.0000GHz dB(S(2,1))=-77.0727
m1 freq=862.00MHz dB(S(2,1))=-0.5542	m2 freq=880.00MHz dB(S(2,1))=-0.5431		

