

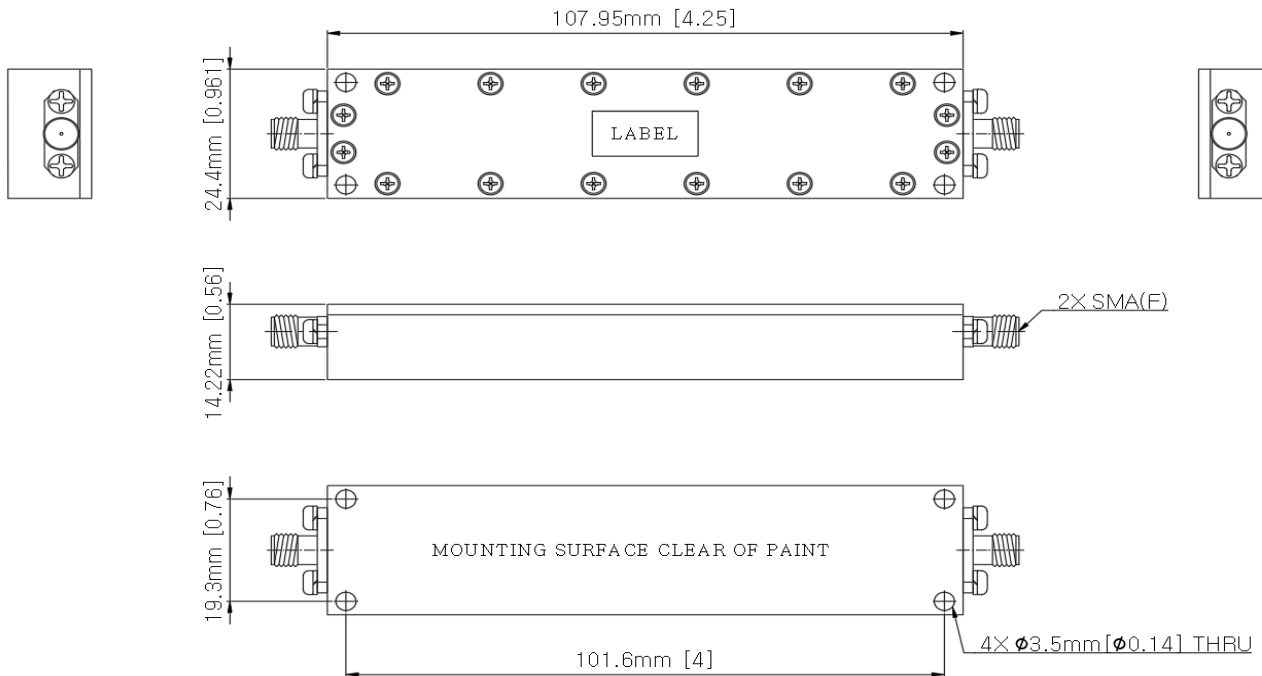
PRODUCT SPECIFICATION FOR INFORMATION

PRELIMINARY SPECIFICATION

Product Name : Low Pass Filter
Part No : MLP-C540_1000MS-A-R1

No	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2024.12.17	Jeffrey Chung	Michael Jeon
2	R1	Include environmental characteristics	2024.12.26	Jeffrey Chung	Michael Jeon

■ Mechanical Drawing



NOTES:

1. BREAK ALL CORNER & EDGES 0.005/0.01
2. PLATING:
 Cu per MIL-C-1455 8um
 Ag per QQ-S-3656 8um
3. Paint Color :
 Gray Code 36231, (MIL-PRF-85285F)

■ Electrical Specification

Parameter	Specification	Remark
1. Passband	80 ~ 1000MHz	OK
2. Insertion Loss	0.5dB Max.	OK
3. Ripple	0.4dB(P-T-P) Max.	OK
4. Return Loss	18.0dB Min.	OK
5. Rejections	40dB Min.@ 1200MHz, 45dB(Typ.)	OK
	60dB Min.@ 1500~6000MHz, 70dB(Typ.)	OK
6. Impedance	50 Ohms	OK
7. Power Handling	60W at VSWR 3:1	OK
8. Operating Temperature	-40℃~+85℃	OK
9. Storage Temperature	-59℃~+85℃	OK
10. Size (W × D × H)	4.25 x 0.96 x 0.56 inch	OK
11. Connectors	SMA(F)	OK
12. Plating	Cu per MIL-C-1455 8um Ag per QQ-S-3656 8um	OK
13. Finish	Gray Code 36231, (MIL-PRF-85285F)	OK

Remarks: This is a preliminary datasheet for reference. The final performance is subject to the sample.

■ Environmental Specification

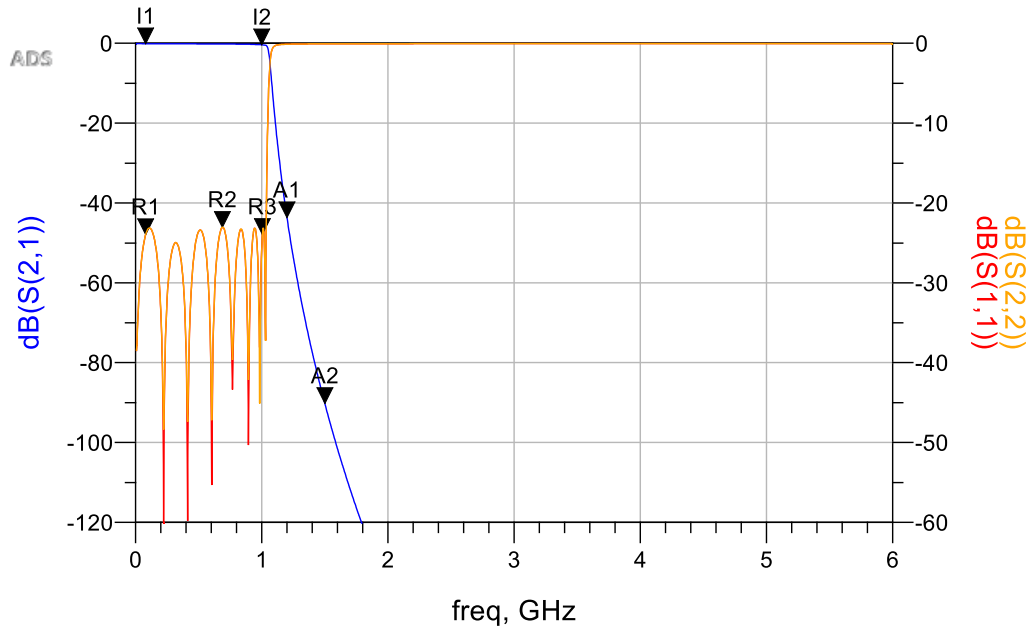
Parameter	Specification	Remark
1.Humidity (Non-condensing)	95%(Max.) Designed to meet : MIL-STD-810G, method 507.5	OK
2.Operating Altitude	50,000 Feet	OK
3.Vibration and Shock	Vibration 6.06 gRMS Designed to meet : MIL-STD-810G method 514.6	OK

■ Simulation Curve

Insertion loss
[dB]

I1
freq=80.000MHz
dB(S(2,1))=-0.1395

I2
freq=1.0000GHz
dB(S(2,1))=-0.4000



Rejection [dB]

A1
freq=1.2000GHz
dB(S(2,1))=-43.7005

A2
freq=1.5000GHz
dB(S(2,1))=-90.2426

Return loss
[dB]

R1
freq=80.000MHz
dB(S(1,1))=-23.9773

R2
freq=687.50MHz
dB(S(1,1))=-23.0684

R3
freq=1.0050GHz
dB(S(1,1))=-23.9619