# PRODUCT SPECIFICATION FOR INFORMATION

PRELIMINARY SPECIFICATION

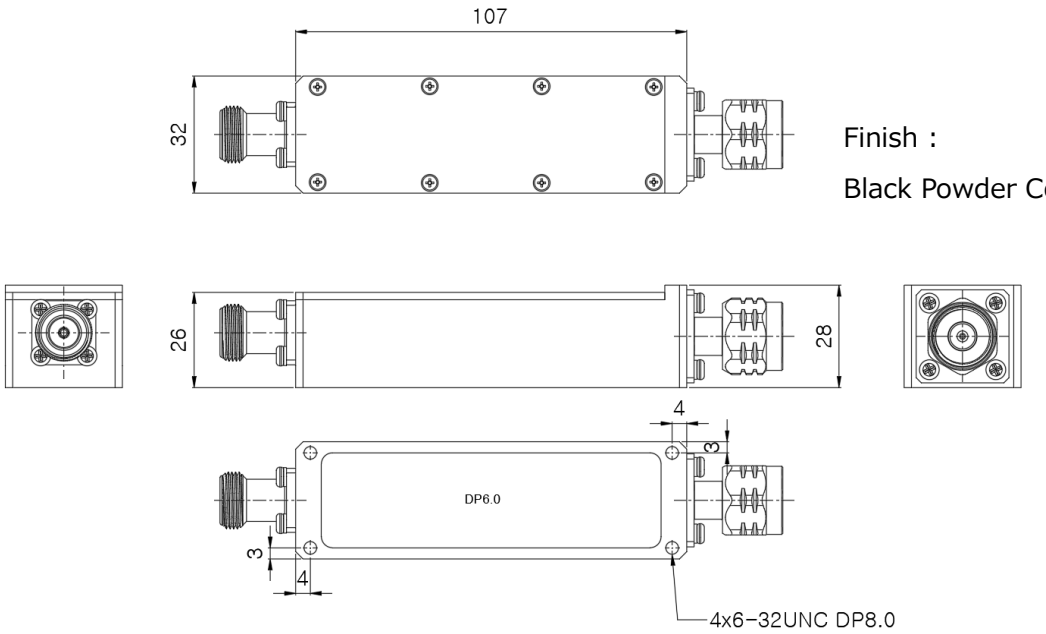
## Product Name : Cavity Band Stop Filter

## Part No : MSP-C7075-100MS-A-R3

■ **History List**

| No. | Rev. No. | Description | Date | Author | Final Approver |
|---|---|---|---|---|---|
| 1 | R0 | Draft | 2023.02.22. | Jeffrey Jeong | Michael Jeon |
| 2 | R1 | Added top lid with O-ring, Changed SMA to N-Type | 2023.02.23. | Jeffrey Jeong | Michael Jeon |
| 3 | R2 | Added mounting holes #6-32UNC DP8.0 | 2023.03.08. | Jeffrey Jeong | Michael Jeon |
| 4 | R3 | Changed finish to Black Powder Coating | 2023.03.14. | Jeffrey Jeon | Michael Jeon |
| 5 | | | | | |
| 6 | | | | | |

## ■ Mechanical Drawing




Finish :

Black Powder Coating

## ■ Electrical Specification

| Parameter | Specification | Remark |
|---|---|---|
| 1. Center Frequency | 7075MHz | |
| 2. Frequency Range | Fo ±100[7025 ~ 7125]MHz | |
| 3. Pass Band | 6700 ~ 6900MHz & 7250 ~ 8500MHz | |
| 4. Insertion Loss | 1.0dB Max. | |
| 5. VSWR | 1.5 : 1 Max. | |
| 6. Rejection | 60dB Min @ 7025MHz & 7125MHz | |
| 7. Power Handling | 10W Max | |
| 8. Impedance | 50Ω | |
| 9. Size | 107 X 32 X 28mm | Proposed |
| 10. Weight | 300g Max. | |
| 11. Connectors | N-Type(F) & N-Type(M) | |
| 12. High Temperature Storage | +33℃ ~ +71℃ MIL-STD-810F Method 501.4 Proc I | |
| 13. High Temperature Storage | -20℃ MIL-STD-810F Method 502.4 Proc I | |
| 14. Thermal Shock | -20 ~ +50 MIL-STD-810F 503.4 Proc I | |
| 15. Humidity | 95%±4% RH@30℃ ~ 60℃ | |
| 16. Solar Radiation | Max. Intensity 1120@/m2 @ +49℃ | |
| 17. Blowing Rain | Wind Velocity 18m/s, Rain Rate 1.7mm/minit. Droplet size 0.5mm to 1.5mm in diameter MIL-STD-810F Method 506.4 Proc I | |
| 18. Salt Fog | Salt Fog PH 6.5 to 7.2, Salt Solution Concentration 5±1% Salt Fog Fallout Rate 1-3ml/80cm2/h MIL-STD-810F Method 509.4 | |

| | | |
|---|---|---|
| 19. Blowing Sand | Air Velocity 18m/sec, Humidity <30% RH, Temperature +50deg, Sand Concentration 1.1±0.3g/$m^3$<br>MIL-STD-810F Method 510.4 Procedure II | |
| 20. Blowing Dust | Air Velocity 8.9m/sec, Humidity <30% RH, Dust Concentration 10.6±7g/$m^3$, Temperature +23deg. & +50deg.<br>MIL-STD-810F Method 510.4 Procedure I | |
| 21. Degree of Enclosure | Distance 2.5-3meter, Splash Rate 12.5L/min<br>Hose Nozzle Diameter 12.5mm<br>IEC 60529 – IPX5 | |
| 22. Transportation Vibration | MIL-STD-810F Method 514.5 Procedure I, Cat. 7 & Cat. 4. | |
| 23. Transit Shock | Shock Form – Saw-Tooth, Pulse Duration 11msec, Shock Amplitude 20g<br>MIL-STD-810F Method 516.5 Procedure I | |
| 24. Operational Altitude | 15K Feet | |
| 25. Storage Altitude | 40K Feet | |
| 26. MTBF | 20,000HRS Max. | |

※It is subjected to change with prior notice.

## ■ Simulation Curve