

LC Filter

ALCF285M315M40S

Revision record

| Date | Version | Author | Revision description | Comment |
|------------|---------|--------|----------------------|---------|
| 2024/10/28 | V1.0 | Sam | Created | / |
| | | | | |
| | | | | |

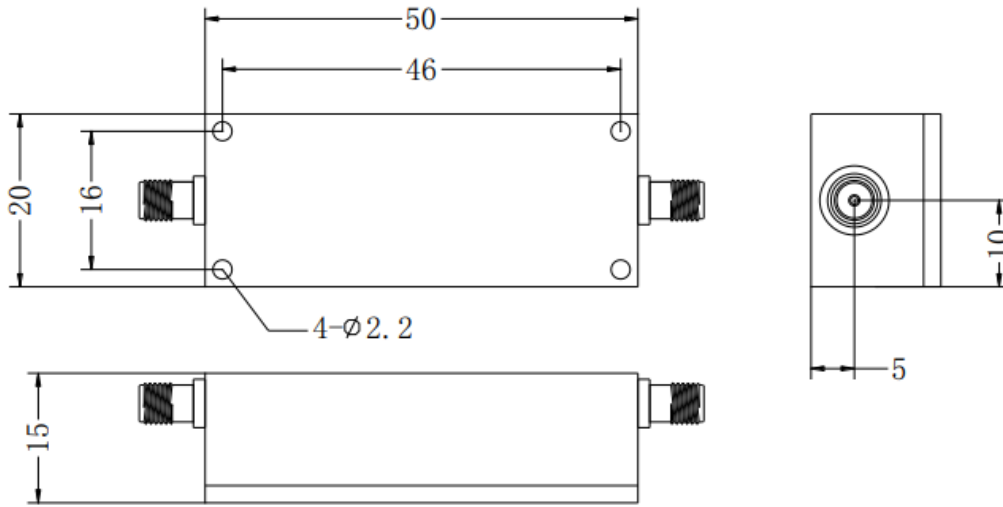
Electrical specification

| Parameter | Specification | |
|------------------|-----------------|-------------------|
| Center Frequency | 300MHz | |
| 1dB Bandwidth | 30MHz | |
| Insertion loss | ≤3.0dB | |
| Return loss | ≥14dB | |
| Rejection | ≥40dB@DC-260MHz | ≥30dB@330-2000MHz |
| Power Handling | 1W | |
| Impedance | 50Ω | |

Mechanical specification

| Parameter | Specification |
|------------|-------------------------------|
| Dimension | L x W x H: 50mm x 20mm x 15mm |
| Connectors | SMA-Female |
| Finish | Black Paint |
| Notes | Material shall be RoHS 6/6 |

Outline



Simulation curve

| | | | |
|--|--|---|---|
| m1 freq=285.0MHz dB(S(2,1))=-2.557 optiter=16 | m2 freq=315.0MHz dB(S(2,1))=-2.632 optiter=16 | m3 freq=260.0MHz dB(S(2,1))=-44.780 optiter=16 | m4 freq=330.0MHz dB(S(2,1))=-38.220 optiter=16 |
|--|--|---|---|

