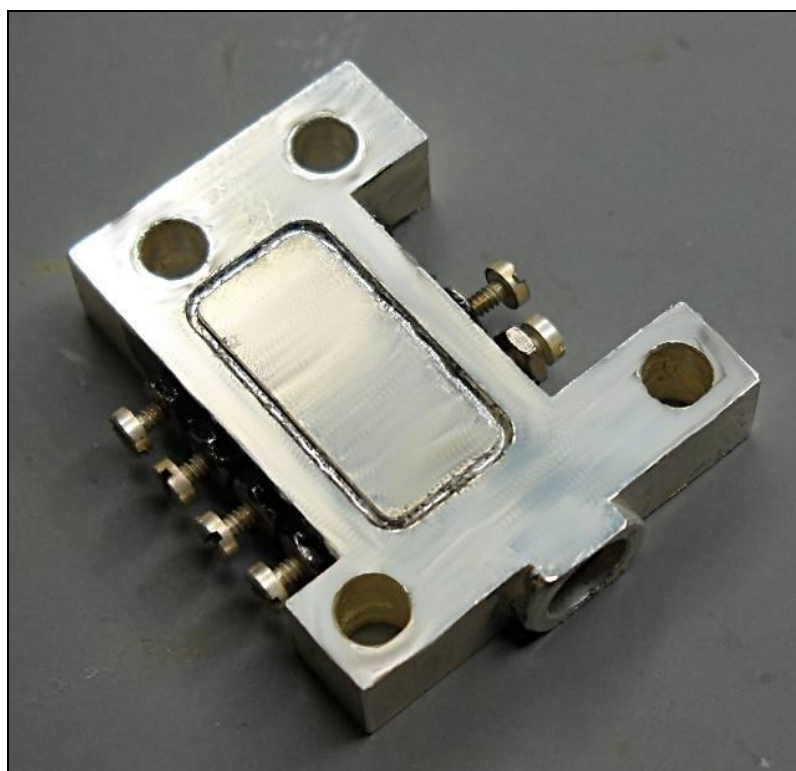


## 15 GHz Bandpass Filter

## LADC-ASS-TMS-5110



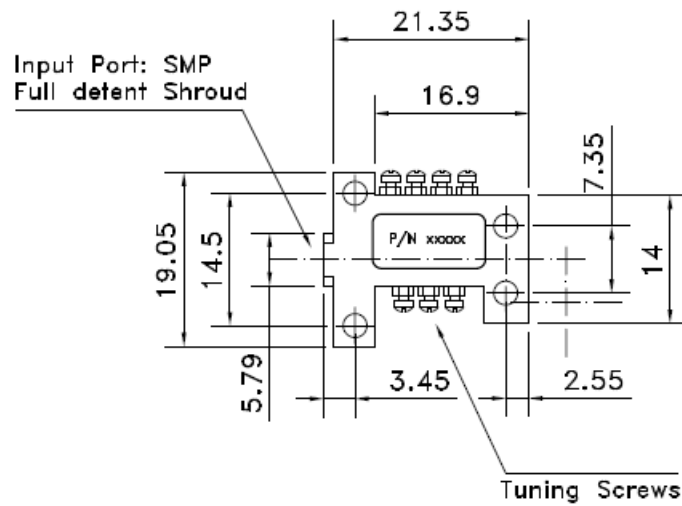
### Highlights:

- 15550 MHz bandpass filters designed for flight application
- Rugged surface mount devices, small size and weight
- Meets the military environmental specifications
- Package size optimized for performance requirements

| Parameter                              | Requirement   | Remarks   |
|--|---------------|---|
| Center Frequency                       | 15550MHz      | Filter response compliant with the prescribed mask within the operating temperature range |
| Center Frequency Thermal Stability (1) | < 6 ppm/°C    |   |
| Pass-band (1)                          | > 286 MHz     |   |
| Input/Output Pass-band VSWR (1);(2)    | < 1.5:1       | Within 1dB BW – 50 ohm  |
| Insertion Loss (1);(2)                 | < 1.5 dB      | Across entire passband; including RF I/F  |
| Insertion Loss Variation (1);(2)       | < 0.5 dB      | 15407 ÷ 15693 MHz   |
|  | < 0.3 dB      | Within any 10 MHz window 15407 ÷ 15693 MHz  |
| Stop-band Rejection (1);(2);(3);(4)    | > 66 dBc      | 0.050 ÷ 12400 MHz   |
|  | > 3 dBc       | 15050 MHz   |
|  | > 3 dBc       | 16050 MHz   |
|  | > 40 dBc      | 17800 ÷ 23900 MHz   |
| Max. Overall dimensions                |               | See drawings  |
| Input/Output RF I/F                    | SMP connector | Input I/F: panel male full detent.  |
|  | custom SMT    | Output I/F: custom bonding ribbon transition;   |
| Mass                                   | < 14.2 g      |   |
| Operating temperature range            | -55 ÷ +85 °C  |   |

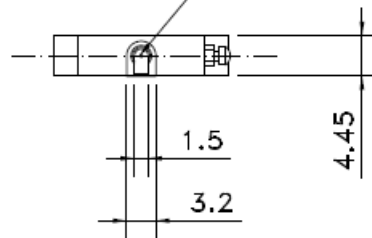
**Notes:**

- (1) These requirements are to be met within operating temperature range of the unit: -55 ÷ +85 °C.
- (2) These requirements are to be met with the filter mounted on the specified Test Fixture; the electrical parameters are to be defined and measured between the SMP (input) and SMA (output) coaxial connectors.
- (3) The specified rejection is linearly interpolated between frequencies.
- (4) Stop-band rejection is relative to the maximum insertion loss in the pass-band.



Top View

Bonding Ribbon Transition



Rear View

Dimensions in [mm]