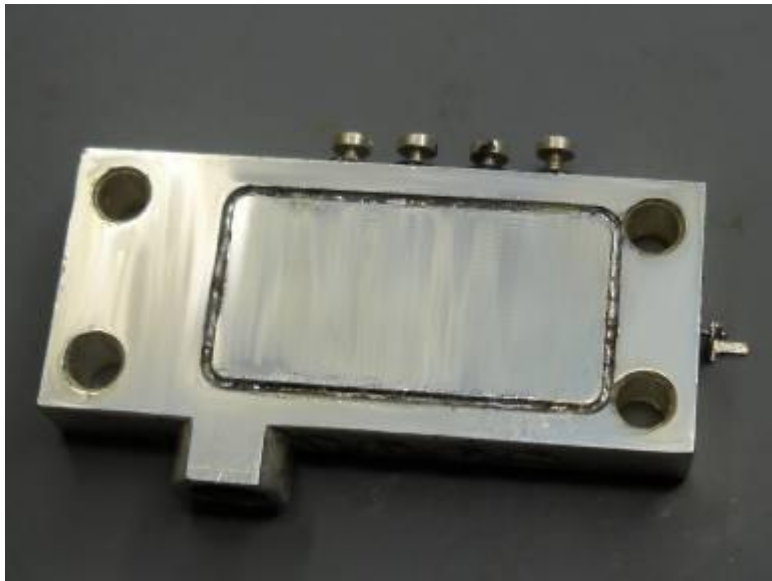


5 GHz Bandpass Filter

LADC-ASS-TMS-5120



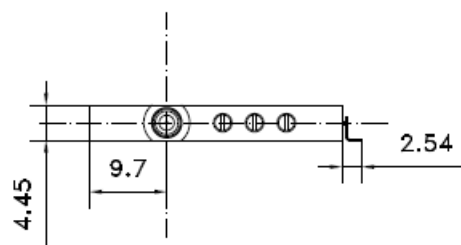
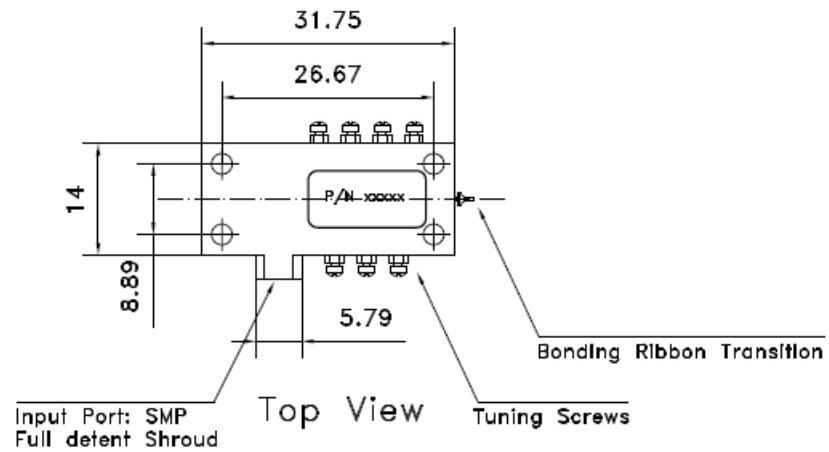
Highlights:

- 5061 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

<i>Parameter</i>	<i>Requirement</i>	<i>Remarks</i>
Center Frequency	5061MHz	Filter response compliant with the prescribed mask within the operating temperature range
Center Frequency Thermal Stability (1)	< 6 ppm/°C	
Pass-band (1)	> 59.9 MHz	
Input/Output Pass-band VSWR (1);(2)	< 1.5:1	Within 1dB BW – 50 ohm
Insertion Loss (1);(2)	< 3 dB	Across entire passband; including RF I/F
Insertion Loss Variation (1);(2)	< 0.5 dB	5030.9 MHz ÷ 5090.8 MHz
	< 0.3 dB	Within a 76 kHz Window 5030.9 MHz ÷ 5090.8 MHz
Stop-band Rejection (1);(2);(3);(4)	> 50 dBc	0.030 MHz ÷ 1820 MHz
	> 100 dBc	1825 MHz to 1895 MHz
	> 70 dBc	2210 MHz
	> 55 dBc	4710 MHz
	> 18 dBc	4835 MHz
	> 43 dBc	5350 MHz
	> 65 dBc	7460 MHz to 13460 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.



Side View

Dimensions in [mm]