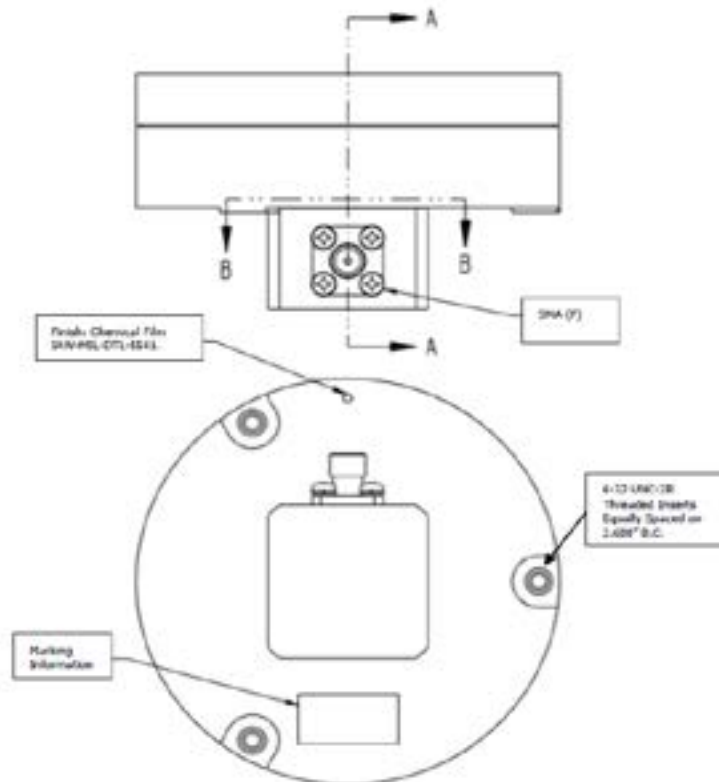


# Model 8508584 Cavity Backed Spiral Antenna

CAES model 8508584-501 (LHCP) and -502 (RHCP) are high-efficiency, planar, cavity-backed, spiral antennas, and have been designed and qualified for installation on military aircraft. Designed to provide the wideband performance and semi-constant beamwidth typically associated with Spiral antennas, but with the benefit of increased efficiency, the 8508584- antennas provide greater than 0dBil boresight gain performance across the entire operating band within a 3" diameter housing. This increased in efficiency is particularly evident at the low-end of the operating band, where the 8508584- antennas provide 2dB more gain than a typical, absorber-loaded, cavity-backed spiral antenna.



## PHYSICAL CONFIGURATION



# Model 8508584 Cavity-Backed Spiral Antenna

<b>FEATURES :</b>	<ul style="list-style-type: none"> <li>• Wideband with stable phase center</li> <li>• Semi-Constant Beamwidth</li> <li>• Low-loss/High-Efficiency</li> <li>• Qualified for Military Airborne Environment</li> </ul>
<b>FREQUENCY RANGE:</b>	<ul style="list-style-type: none"> <li>• 1.7 - 6.0 GHz</li> </ul>
<b>VSWR:</b>	<ul style="list-style-type: none"> <li>• 2.5 : 1</li> </ul>
<b>GAIN ON BORESIGHT:</b>	<ul style="list-style-type: none"> <li>• 0 dBiL (min)</li> </ul>
<b>BEAMWIDTH, EL, 3dB:</b>	<ul style="list-style-type: none"> <li>• 75 degrees (typical)</li> </ul>
<b>BEAMWIDTH, AZ, 3dB:</b>	<ul style="list-style-type: none"> <li>• 75 degrees (typical)</li> </ul>
<b>POLARIZATION:</b>	<ul style="list-style-type: none"> <li>• LH or RHCP</li> </ul>
<b>AXIAL RATIO:</b>	<ul style="list-style-type: none"> <li>• 4 dB max (boresight)</li> </ul>
<b>FINISH - HOUSING:</b>	<ul style="list-style-type: none"> <li>• MIL-DTL-5541, type 1</li> </ul>
<b>CONNECTOR:</b>	<ul style="list-style-type: none"> <li>• SMA (F)</li> </ul>
<b>WEIGHT:</b>	<ul style="list-style-type: none"> <li>• 12 oz. max.</li> </ul>
<b>DIMENSIONS:</b>	<ul style="list-style-type: none"> <li>• 3.0" dia. x 4.0" depth</li> </ul>
<b>ENVIRONMENTAL:</b>	<ul style="list-style-type: none"> <li>• MIL-STD-810</li> </ul>

