Name: APENST809V01

Type: Earth station, Receiving and Transmitting

Region(s): 123

Required Input Parameters:
gain, phi1

Validation Warnings/Errors:

<table>
<thead>
<tr>
<th>Type</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Error</td>
<td>Phi1 () is out of limits [1:180].</td>
</tr>
</tbody>
</table>

Pattern Information:
Pattern is equal to the maximum antenna gain for angles up to Phi1 and minimum antenna gain 0 dB for angles greater than Phi1.

Co-Polar Component:

\[
G = G_{\text{max}} \quad \text{for } 0^\circ \leq \varphi < \Phi_1 \\
G = G_{\text{min}} \quad \text{for } \Phi_1 \leq \varphi \leq 180^\circ \\
G_{\text{min}} = 0
\]