Co-Polar Component:

\[ G = G_{\text{max}} \quad \text{for } 0^\circ \leq \phi < \phi_1 \]
\[ G = G_1 \quad \text{for } \phi_1 \leq \phi < \phi_r \]
\[ G = \text{CoefA} - \text{CoefB} \times \log \phi \quad \text{for } \phi_r \leq \phi < \phi_b \]
\[ G = G_{\text{min}} \quad \text{for } \phi_b \leq \phi \leq 180^\circ \]

where:
\[ \phi_1 = 13^\circ \]
\[ \phi_r = 21^\circ \]
\[ \phi_b = \left( \frac{47}{25} \right) \quad (76^\circ) \]
\[ G_1 = 14 \]
\[ \text{CoefA} = 44 \]
\[ \text{CoefB} = 25 \]
\[ G_{\text{min}} = -3 \]

Required Input Parameters:
- gain

Validation Warnings/Errors:

<table>
<thead>
<tr>
<th>Type</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Error</td>
<td>Gmax () is less than 14 (). Gmax is too low.</td>
</tr>
</tbody>
</table>

Name: APEG_217V01
Type: Earth station, Receiving and Transmitting

Description:
Earth station antenna pattern submitted by G for network INMARSAT earth station type Typical-0.55M.

APEG_217V01