

Name: APEG__215V01**Description:****Type:** Earth station, Receiving and Transmitting

Earth station antenna pattern submitted by G for network INMARSAT earth station type Typical-0.2M and CLIC-L.

Required Input Parameters:

gain

Validation Warnings/Errors:

| Type | Message |
|-------|---|
| Error | Gmax () is less than 5 (). Gmax is too low. |

Co-Polar Component:

$$G = G_{\max} \quad \text{for } 0^\circ \leq \varphi < \varphi_1$$

$$G = G_1 \quad \text{for } \varphi_1 \leq \varphi < \varphi_r$$

$$G = \text{CoefA} - \text{CoefB} * \log \varphi \quad \text{for } \varphi_r \leq \varphi < \varphi_b$$

$$G = G_{\min} \quad \text{for } \varphi_b \leq \varphi \leq 180^\circ$$

where:

$$\varphi_1 = 36^\circ$$

$$\varphi_r = 65^\circ$$

$$\varphi_b = 10^{\left(\frac{47}{25}\right)} (76^\circ)$$

$$G_1 = 5$$

$$\text{CoefA} = 44$$

$$\text{CoefB} = 25$$

$$G_{\min} = -3$$