

Name: APEG__219V01**Description:****Type:** Earth station, Receiving and Transmitting

Earth station antenna pattern submitted by G for network INMARSAT earth station type INM-M(M).

Required Input Parameters:

gain

Validation Warnings/Errors:

Type	Message
Error	Gmax () is less than 11 (). 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:

$$\varphi_1 = 20^\circ$$

$$\varphi_r = 40^\circ$$

$$\varphi_b = 10 \left(\frac{51}{25} \right) (110^\circ)$$

$$G_1 = 11$$

$$\text{CoefA} = 46$$

$$\text{CoefB} = 25$$

$$G_{\min} = -5$$