

**Name:** APEG\_\_221V01**Description:****Type:** Earth station, Receiving and Transmitting

Earth station antenna pattern submitted by G for network INMARSAT earth station type R-BGAN.

**Required Input Parameters:**

gain

**Validation Warnings/Errors:** None**Co-Polar Component:**

$$G = G_{\max} \quad \text{for } 0^\circ \leq \varphi < \varphi_r$$
$$G = \text{CoefA} - \text{CoefB} * \log \varphi \quad \text{for } \varphi_r \leq \varphi < \varphi_b$$
$$G = G_{\min} \quad \text{for } \varphi_b \leq \varphi \leq 180^\circ$$

where:

$$\varphi_r = 30^\circ$$

$$\varphi_b = 120^\circ$$

$$\text{CoefA} = 39$$

$$\text{CoefB} = 27$$

$$G_{\min} = -19$$