Name: APEG__218V01

Type: Earth station, Receiving and Transmitting

Description:

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

Required Input Parameters:

gain

Validation Warnings/Errors:

Type	Message
Error	Gmax () is less than 9 (). Gmax is too low.

Co-Polar Component:

$G = G_{max}$ for $0° \leq \varphi < \varphi_1$

$G = G_1$ for $\varphi_1 \leq \varphi < \varphi_r$

$G = CoefA - CoefB * \log \varphi$ for $\varphi_r \leq \varphi < \varphi_b$

$G = G_{min}$ for $\varphi_b \leq \varphi \leq 180°$

where:

$\varphi_1 = 20°$

$\varphi_r = 25°$

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

$G_1 = 9$

$CoefA = 44$

$CoefB = 25$

$G_{min} = -3$