Name: APELUX225V01

Description:

Type: Earth station, Receiving and Transmitting

Earth station antenna pattern submitted by LUX for earth station type Typical-0.2M.

Required Input Parameters:

gain

Validation Warnings/Errors:

Туре	Message
Error	Gmax () is less than 4.5 (). Gmax is too low.

Co-Polar Component:

 $G \ = \ G_{\text{max}} \qquad \qquad \text{for } 0^{\circ} \leq \phi < \phi_1$

 $G \ = \ G_1 \qquad \qquad \text{for } \phi_1 \leq \phi < \phi_r$

 $G \ = \ CoefA - CoefB * log \, \phi \qquad \qquad \text{for } \phi_r \leq \phi < \phi_b$

 $G \ = \ G_{min} \qquad \qquad \text{for } \phi_b \leq \phi \leq 180^{\circ}$

where:

 $\phi_1 = 36^{\circ}$

 $\phi_r = 65^{\circ}$

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

 $G_1 = 4.5\,$

CoefA = 44

CoefB = 25

 $G_{min} = -3$