Name: APELUX227V01

Description:

Type: Earth station, Receiving and Transmitting

Earth station antenna pattern submitted by LUX for earth station type Typical-0.55M.

Required Input Parameters:

gain

Validation Warnings/Errors:

Туре	Message
Error	Gmax () is less than 13.5 (). Gmax is too low.

Co-Polar Component:

 $G \ = \ G_{max}$

for $0^{\circ} \le \phi < \phi_1$

 $G \,=\, G_1$

for $\phi_1 \le \phi < \phi_r$

 $G = CoefA - CoefB * log \phi$

for $\phi_r \le \phi < \phi_b$

 $G \ = \ G_{min}$

for $\phi_b \leq \phi \leq \!\! 180^{\circ}$

where:

 $\phi_1 = 13^{\circ}$

 $\phi_r = 21^\circ$

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

 $G_1 = 13.5$

CoefA = 44

CoefB = 25

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