Name: APELUX224V01

Description:

Type: Earth station, Receiving and Transmitting

Earth station antenna pattern submitted by LUX for earth station types TER-B and TER-M(M).

Required Input Parameters:

gain

Validation Warnings/Errors:

Type	Message
Error	Gmax () is less than 8 (). Gmax is too low.

Co-Polar Component:

 $G \; = \; G_{max}$

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

 $G \ = \ G_1$

for $\phi_1 \leq \phi < \phi_r$

 $G = CoefA - CoefB * log \phi$

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

 $G \ = \ G_{min}$

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

where:

 $\phi_1 = 16^{\circ}$

φr = 21°

$$\varphi_b = 10^{\left(\frac{44}{25}\right)}$$
 (57°)

 $G_1=8\\$

CoefA = 41

CoefB = 25

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