Name: APEG__222V01

Description:

Type: Earth station, Receiving and Transmitting

Earth station antenna pattern submitted by G for network INMARSAT earth station type INM-B.

Required Input Parameters:

gain

Validation Warnings/Errors:

| Type | Message |
|-------|--|
| Error | Gmax () is less than 18 (). Gmax is too low. |

Co-Polar Component:

 $G \ = \ G_{max}$

for $0^{\circ} \le \phi < 10^{\circ}$

G = 18

for $10^{\circ} \le \phi < 16^{\circ}$

G = 8

for $16^{\circ} \leq \phi < \phi_r$

 $G \ = \ CoefA - CoefB * log \ \phi$

 $\text{for } \phi_{\text{r}} \quad \leq \phi < \phi_{\text{b}}$

 $G \ = \ G_{min}$

for $\phi_b \le \phi \le 180^\circ$

where:

$$\varphi_r = 10^{\left(\frac{33}{25}\right)} (21^\circ)$$

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

CoefA = 41

CoefB = 25

 $G_{min} = -3$