Name: APEG__223V01

Type: Earth station, Receiving and Transmitting

Description:

Earth station antenna pattern submitted by G for network INMARSAT earth station type CLIC.

Required Input Parameters:

gain

Validation Warnings/Errors:

Type	Message
Error	Gmax () is less than 29 (). Gmax is too low.

Pattern Information:

This pattern is similar to APENST804V01 with angle phi b equal to 48 degrees instead of 36 degrees. It has positive step of 3 dB at 48 degrees.

Co-Polar Component:

$G = G_{max}$ for $0° \leq \varphi < 1°$

$G = CoefA - CoefB * \log \varphi$ for $1° \leq \varphi < \varphi_b$

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

where:

$\varphi_b = 48°$

$CoefA = 29$

$CoefB = 25$

$G_{min} = -10$

If $G > G_{max}$: $G = G_{max}$