Name: APEMLA245V01

Type: Earth station, Transmitting

Required Input Parameters:
- 

Validation Warnings/Errors: None

Co-Polar Component:

\[
\begin{align*}
G &= 20 - 0.12 \times \varphi^2 & \text{for} \quad 0^\circ \leq \varphi < 6.7^\circ \\
G &= 14.6 & \text{for} \quad 6.7^\circ \leq \varphi < 14.4^\circ \\
G &= 52 - 10 \times \log \frac{D}{\lambda} - 25 \times \log \varphi & \text{for} \quad 14.4^\circ \leq \varphi < 53.3^\circ \\
G &= 0 & \text{for} \quad 53.3^\circ \leq \varphi \leq 180^\circ \\
\end{align*}
\]

where

\[
D = 0.7 \text{ m}
\]

frequency is 1.6 GHz

Description:
Earth station antenna pattern submitted by MLA for networks of MEASAT series: TYPICAL-M4, uplink. Maximum antenna gain is fixed to 20 dB, antenna diameter is 0.7 m, frequency is 1.6 GHz.