Name: APEUAE229V01

# **Description:**

Type: Earth station, Receiving and Transmitting

Earth station antenna pattern submitted by UAE for 12 dB earth

# **Required Input Parameters:**

gain

# Validation Warnings/Errors:

| Type  | Message                                      |
|-------|--|
| Error | Gmax () is less than 12 (). Gmax is too low. |

# **Co-Polar Component:**

$$\begin{split} G &= G_{\text{max}} - 12 \; (\phi/\phi_0)^2 & \text{for } 0^\circ \; \leq \phi < \phi_m \\ G &= CoefA - CoefB * log \; \phi & \text{for } \phi_m \leq \phi < \phi_b \\ G &= G_{\text{min}} & \text{for } \phi_b \leq \phi \leq 180^\circ \end{split}$$

## where:

 $\phi_0 = 28^{\circ}$   $\phi_m = 23^{\circ}$   $\phi_b = 50^{\circ}$  CoefA = 38