

Name: APEMLA244V01**Type:** Earth station, Receiving**Description:**

Earth station antenna pattern submitted by MLA for networks of MEASAT series: TYPICAL-M4, downlink. Maximum antenna gain is fixed to 20 dB, antenna diameter is 0.7 m, frequency is 1.5 GHz.

Required Input Parameters:

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Validation Warnings/Errors: None**Co-Polar Component:**

$$\begin{aligned} G &= 20 - 0.12 * \varphi^2 && \text{for } 0^\circ \leq \varphi < 6.7^\circ \\ G &= 14.6 && \text{for } 6.7^\circ \leq \varphi < 14.4^\circ \\ G &= 52 - 10 * \log D/\lambda - 25 * \log \varphi && \text{for } 14.4^\circ \leq \varphi < 53.3^\circ \\ G &= 0 && \text{for } 53.3^\circ \leq \varphi \leq 180^\circ \end{aligned}$$

where

D = 0.7 m

frequency is 1.5 GHz