

**Name:** APEMLA243V01**Description:****Type:** Earth station, Transmitting

Earth station antenna pattern submitted by MLA for networks of MEASAT series: TYPICAL-M3, uplink. Maximum antenna gain is fixed to 14 dB, antenna diameter is 0.3 m, frequency is 1.6 GHz.

**Required Input Parameters:**

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

$$G = 14 - 0.003 * \varphi^2 \quad \text{for} \quad 0^\circ \leq \varphi < 11.4^\circ$$

$$G = 10.1 \quad \text{for} \quad 11.4^\circ \leq \varphi < 28.8^\circ$$

$$G = 52 - 10 * \log D/\lambda - 25 * \log \varphi \quad \text{for} \quad 28.8^\circ \leq \varphi < 73^\circ$$

$$G = 0 \quad \text{for} \quad 73^\circ \leq \varphi \leq 180^\circ$$

where

$$D = 0.3 \text{ m}$$

frequency is 1.6 GHz