

Name: APS__F632V01**Description:****Type:** Space station, Receiving and Transmitting

Space station antenna pattern submitted by F for AST-NG-NC-CL2 network.

Required Input Parameters:

gain

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

$$G = G_{\max} - 3 \left(\frac{\varphi}{\varphi_0}\right)^2 \quad \text{for} \quad 0^\circ \leq \varphi \leq \varphi_1$$

$$G = 34 - 25 \log \varphi \quad \text{for} \quad \varphi_1 < \varphi \leq 17.4^\circ$$

$$G = 3 \quad \text{for} \quad 17.4^\circ < \varphi \leq 180^\circ$$

where

$$\varphi_1 = 1.09^\circ$$

$$\varphi_0 = 0.55^\circ$$