Name: APS__D630V01

Description:

Space station antenna pattern submitted by D for KBSAT-NGSO-1 $\,$

Type: Space station, Receiving and Transmitting

network for RVP2 beam.

Required Input Parameters:

gain

Validation Warnings/Errors:

Type	Message
Error	Gmax () is less than 43 (). Gmax is too low.

Co-Polar Component:

$$G = G_{max} - 3 (\phi/\phi_0)^2$$

$$\quad \text{for} \qquad 0^{\circ} \leq \phi \leq \phi_1$$

$$G=34-25\;log\;\phi$$

$$for \qquad \phi_1 < \phi \leq 17.4^{\circ}$$

$$G = 3$$

$$for \quad 17.4^{\circ} < \phi \leq 180^{\circ}$$

where

$$\phi_1 = 1.09^{\circ}$$

$$\phi_0 = 0.55^{\circ}$$