Name: APSREC413V01

Type: Space station, Receiving and Transmitting

Region(s): 123

Required Input Parameters:
 gain,maj_axis,min_axis,orient

Validation Warnings/Errors: None

Pattern Information:
 Single feed circular beams.
 Ls = -15 dB.

Description:

Recommendation ITU-R S.672-4 space station antenna pattern for use as a designe objective in the FSS employing geostationary satellites. For Ls = -15 dB.

Co-Polar Component:

$G = G_{max} - 12\ (\varphi/\varphi_0)^2$ for $0 \leq (\varphi/\varphi_0) \leq a/2$

$G = G_{max} + L_s$ for $a/2 < (\varphi/\varphi_0) \leq b/2$

$G = G_{max} + L_s + 20 - 25 \log (2\varphi/\varphi_0)$ for $b/2 < (\varphi/\varphi_0)$

where:

$L_s = -15$ dB

$a = 2.24$

$b = 6.32$