Name: APSREC408V01

Description:

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 = -20 dB for use in article 22, tables 22-2 and 22-3.

Co-Polar Component:

$G = G_{max} - 12 \ (\phi/\phi_0)^2$	for	$0 \leq (\phi/\phi_0) \leq a/2$
$G = G_{max} + L_s$	for	$a/2 < (\phi/\phi_0) \leq b/2$
$G = G_{max} + L_s + 20 - 25 \log ($	(2φ/φ0)) for $b/2 < (\phi/\phi_0)$

where:

 $L_s = -20 \text{ dB}$ a = 2.58 b = 6.32 Recommendation ITU-R S.672-4 space station antenna pattern for use as a designe objective in the FSS employing geostationary satellites. For Ls = -20 dB.