



# SOB107E-090

0,90 M RX / TX KU Band Ap. 30 Satcom Antenna.

## ELECTRICAL CHARACTERISTICS

<b>Frequency Range</b>	Reception: 10,700 a 12,200 GHz Transmission: 12,750 a 14,500 GHz
<b>Polarization</b>	Linear, Crosspol
<b>Gain</b>	Reception: 38,8 dBi (@ 11,450 GHz) Transmission: 40,2 dBi (@ 13,625 GHz)
<b>Halfwave Beamwidth</b>	Reception: 2,1° (@ 11,450 GHz) Transmission: 1,9° (@ 13,625 GHz)
<b>Noise Temperature</b>	20° Elevation: 34 K (@ 11,450 GHz) 40° Elevation: 31 K (@ 11,450 GHz) 60° Elevation: 32 K (@ 11,450 GHz)
<b>G/T Typical, 20° elevation at clear Sky</b>	Ku Band LNA, 70 K: 18,6 dB/K (@ 11,450 GHz)
<b>Radiation Pattern Envelope</b>	Anatel Resolution 572 FCC regulation 25.209 ITU-RS580
<b>Cross Polarization Discrimination*</b>	30 dB
<b>Axial Ratio</b>	Reception: Non-applicable Transmission: Non-applicable
<b>VSWR (Return Loss)*</b>	Reception: 1,3 (17,7 dB) Transmission: 1,3 (17,7 dB)
<b>Chanel to Chanel Isolation*</b>	TX/RX (TX Band): 35 (75 with filter)
<b>Feed Insertion Loss*</b>	Reception: 0,25 dB Transmission: 0,15 dB
<b>Feed Termination (flange)*</b>	Reception: WR 75 Transmission: WR 75
<b>Input Maximum Power*</b>	500 W

\* Specification related the linear Ku band professional feeder for the full band (special order)

## MECHANICAL CHARACTERISTICS

<b>Diameter</b>	0,90 m
<b>Antenna Geometry</b>	Off-set
<b>Motion</b>	Elevation over azimuth
<b>Motion Adjustment</b>	Azimuth: ± 180° Elevation: 0 a 90° Polarization: Continuous
<b>Weight</b>	Net: 18 kg Gross: 21 kg
<b>Packing</b>	Volume: 0,28 m3 Dimension: 1,05 x 1,05 x 0,25
<b>Reflector Material</b>	Galvanized Steel
<b>Mount Material</b>	Steel
<b>Finishing</b>	Reflector: White painting Mount: Hot dip galvanization
<b>Surface Precision</b>	0,5 mm (rms)

## ENVIRONMENTAL CHARACTERISTICS

<b>Operational Wind</b>	80 km/h
<b>Survival Wind</b>	150 km/h
<b>Shock and Vibration</b>	Typical in sea, air and terrestrial shipments
<b>Atmosphere</b>	Found in seashore and industrial areas

Subject to changes without previous notice

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## OPTIONALS

Ground or wall universal base mounting  
Non penetrating mounting

Radio supports are available for severals manufactures

Client logotype

CEP 82.720-000  
E-mail: brasilsat@brasilsat.com.br

Curitiba - PR  
www.brasilsat.com.