

PAYLOAD EQUIPMENT (PASSIVE)

KU-BANT INET

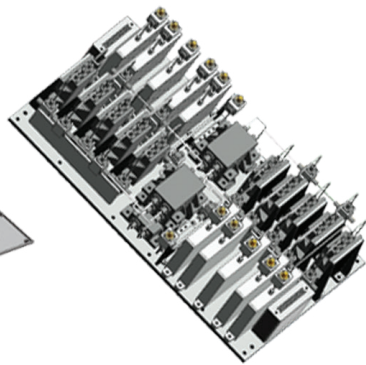
KU-BANT ONET

KU-BAND TURKEY ANTENNA

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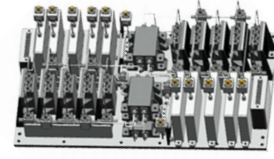
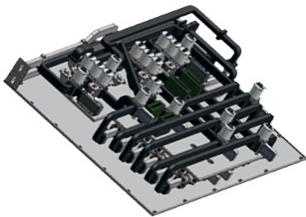
Ku-Band ONET is used for multiplexing and switching of downlink channels.

Technical Specifications

- Operating Frequency Band (Uplink): 17300 - 18350 MHz
- Operating Frequency Band (Downlink): 11700 - 12750 MHz
- No of Channel and Bandwidth: 33 MHz
- Switch Type: C (number: 6) and R (number: 13) Switches
- Input Return Loss
 - : Centre Frequency +/-15 MHz : > 19 dB
 - : Centre Frequency +/-16.5 MHz: > 18 dB
- Output Return Loss Γ : > 18 dB
- Insertion Loss
 - : Primary : ≤ 1.00 dB
 - : First Failure : ≤ 1.18 dB
 - : Second Failure : ≤ 1.30 dB
- Near Out of Band Rejection
 - : Centre Frequency ± 24 MHz: < 10 dB
 - : Centre Frequency ± 41 MHz: < 25 dB
 - : Centre Frequency ± 100 MHz: < 50 dB
- Far Out of Band Rejection
 - : Centre Frequency -100 MHz : 50 dB
 - : Centre Frequency +100 MHz to 13600 MHz: 50 dB
 - : 13600 to 15000 MHz : 80 dB
 - : 15 to 40 GHz : 80 dB
- Dimension : 900x600x200 mm³
- Mass : < 21.25 kg
- In-Orbit Life : 15 years
- RF Input Interface : WR75
- RF Output Interface : WR90
- Natural Frequency : > 140 Hz
- Maximum RF Input Power Level 180 W
- Reliability : < 67 FIT @ 35°C

Environmental Specifications

- Operating Temperature
 - : Range +5°C to +60°C (Operating Mode)
 - : Range -30°C to +80°C (Survival/Non-operating mode)
- Orbit : GEO



KU-BANT INET

Ku-Band Turkey Antenna is a shaped beam Gregorian Satellite Antenna used for receiving Ku-Band uplink signals sent from Turkey coverage area. Turkey Antenna is also responsible of transmission of downlink signal to the Turkey coverage area.

Technical Specifications

- Operating Frequency Band (Uplink) : 17300 - 18350 MHz
- Operating Frequency Band (Downlink): 11700 - 12750 MHz
- No of Channel and Bandwidth : 10 / 33 MHz
- Switch Type : SPDT Switch
- Return Loss (For all 33 MHz Channels)
 - : 21 dB minimum in the Centre Frequency ± 16.5 MHz band
- Insertion Loss : < 12 dB
- Near Out of Band Rejection
 - : Centre Frequency ± 24 MHz : < 19 dB
 - : Centre Frequency ± 41 MHz : < 30 dB
 - : Centre Frequency ± 100 MHz : < 50 dB
- Dimension : 420x240x150 mm³
- Mass : < 6.25 kg
- In-Orbit Life : 15 years
- RF Input /Output Interface : SMA
- Natural Frequency : > 140 Hz
- Reliability : < 76 FIT @ 35°C

Environmental Specifications

- Operating Temperature
 - : Range +5°C to +60°C (Operating Mode)
 - : Range -30°C to +80°C (Survival/Non-operating mode)
- Orbit : GEO

KU-BAND TURKEY ANTENNA

Ku-Band Turkey Antenna is a shaped beam Gregorian Satellite Antenna used for receiving Ku-Band uplink signals sent from Turkey coverage area. Turkey Antenna is also responsible of transmission of downlink signal to the Turkey coverage area.

Technical Specifications

- Antenna Type : Shaped Beam Gregorian Antenna
- Opening Property : Fixed Antenna on Top Panel
- Radius : Main Reflector 1.6 m
- Receiving Frequency Band: 17.300-18.350 GHz WR62
- Transmitting Frequency Band: 11.700-12.750 GHz WR90
- Receiving Polarization: Horizontal and Vertical
- Transmitting Polarization : Horizontal and Vertical
- Mass : < 35 kg
- Life : 15 years
- Natural Frequency : > 45 Hz

Environmental Specifications

- Orbit : GEO

