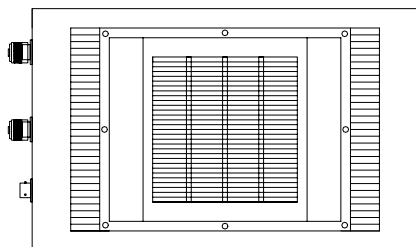
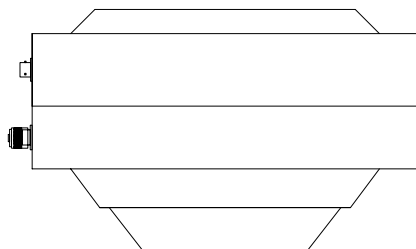




KU BAND HUBMOUNT SSPA 10W, 16 W and 20W ACSSH-KU10W, ACSSH-KU16W and ACSSH-KU20W

Edition 0:

GENERAL DESCRIPTION



ACSSH-KU series consist in integrated RF Solid State Power Amplifiers (SSPA). ACSSH-KU series of hubmount SSPA are ideal to work with KU-band rackmount up-converters. All products in this series has been tested and calibrated between -40 and $+55^{\circ}\text{C}$, so they assure very good gain stability with temperature. ACSSB-KU also includes a temperature alarm and power supply shutdown to protect the amplifier from permanent damages when temperature exceeds 80°C , when de temperature go down 65°C the equipment begin work again. ACSSB-KU allows communication through RS-232 or RS-485 for alarm monitoring, power output monitoring, operating temperature monitoring, etc

ACSSH-X series are very robust and compact equipment, but keeping low weight and size.

TECHNICAL SPECIFICATIONS

1. ACSSH-KU series specifications

Input

- Input Frequency: Standard KU \rightarrow 14 – 14,5 GHz, Bw = 500 MHz
Low band KU \rightarrow 13,75 – 14,25 GHz, Bw = 500 MHz
Extended KU \rightarrow 13,75 – 14,5 GHz, Bw = 750 MHz
- Input impedance: 50 Ω
- Input VSWR : 1.3:1

Output

- Output frequency: Standard KU \rightarrow 14 – 14,5 GHz, Bw = 500 MHz
Low band KU \rightarrow 13,75 – 14,25 GHz, Bw = 500 MHz
Extended KU \rightarrow 13,75 – 14,5 GHz, Bw = 750 MHz
- Output VSWR: 1.3:1
- Output sample: -40 dBc
- Output power: 10W (+40dBm) @ 25°C at P1dB
16W (+42dBm) @ 25°C at P1dB
20W (+43dBm) @ 25°C at P1dB
- Gain: 58 dB \pm 2dB @ 25°C
60 dB \pm 2dB @ 25°C
61 dB \pm 2dB @ 25°C
- Gain adjust: 15 dB in 0,5 dB steps
- Gain ripple: \pm 1 dB over the whole band
 \pm 0.5 dB over 40MHz



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Edition 0:

- Gain variation with temperature: ± 1.5 dB over the whole range
- Carrier to intermodulation ratio: < -25 dBc, $\Delta f=5$ MHz, BO= 6 dB
- Spurious: < -60 dBc, at Pout=P1dB
- Noise figure: < 15 dB para Pout=P1dB

2. General specifications

- Input RF connector: N(f) waterproof
- Output RF connector: Waveguide WR-75
- Output sample connector: N (f)
- Input supply connector: MS3112E12-P3 → A = Phase
B = Neutre
C = Ground

- M&C connector: MS3112E12-S14
A = Alarm (Nopen contact)
B = Common
C = Alarm (Nclose contact)
D = ON/OFF
E = GND
F = GND
H = +5V
J = Rx RS-232
K = Tx RS-232
L = Selección RS-232 / RS-485
M = Rx+ RS-485
N = Rx- RS-485
P = Tx+ RS-485
R = Tx- RS-485

- Supply voltage: 90 to 265 Vac
- Operating temperature: -30°C a $+55^{\circ}\text{C}$
- Storage temperature: -40°C a $+85^{\circ}\text{C}$
- Relative humidity: 0 to 100%

3. Mechanical specifications

- Length: 400 mm
- Width: 250 mm
- Height (with fan): 175 mm
- Weight (TBC): 12 Kg



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ACSSH-KU10W, ACSSH-KU16W and ACSSH-KU20W**

Edition 0:

4. Available options

- Supply voltage: 24 or 48 Vdc
- Operating temperature ranges: -40° C a + 55° C
- For other options contact ACORDE.

5. Accesories

- All the equipments could be delivered with the necessary aerial connectors.
- Rail assembly kit
- Outdoor or 19" rack power supply
- Redundant systems 1:1 and 1:2
- LNB, OMT and RX filter