



Alcatel 9774-2xx series Ku-band booster amplifiers

Product Description

The Alcatel 9774-series of 8 and 12W Ku band booster amplifiers are modular, constant gain, high power output devices used to boost Ku-band signals and hence increasing the gain of existing transmitters.

A standard 2W Ku band block-upconverter is typically used to drive the A9774-2xx booster amplifier.

The excellent linearity and low spurious behaviour allows safe multi-carrier operation.

The unit can easily be configured with a Palm handheld or PC / UNIX station through M&C (RS232 / RS485).

- Monitoring and Control includes:
 - SSPA ON/OFF Status + Control
 - Temperature Monitoring
 - Input level Detect
 - Output Level Detect
 - Fan speed monitoring
- With A9774 series Ku-band 2W BUC:
 - BUC controlled via Booster M&C
 - Combined BUC + Booster alarms
 - Dynamic levelling and controlled back-off
 - Safe power-on/off sequence

Ordering info

A9774-223	Ku band Booster	8 Watt
A9774-233	Ku band Booster	12 Watt

Main Characteristics

- 8 or 12 Watt RF Output Power
- High reliability due to enhanced cooling fin design
- Low power consumption
- Lightweight
- Weatherized

Applications

- Voice, data and digital/analogue video transmissions
- VSAT applications





Electrical Specifications

- RF frequency range:
14.00 to 14,50 GHz
- Input level : 31 dBm for P^{-1dB} output
- Gain at P^{-1dB},@25°C: 8dB for 8 W
: 10dB for 12W
- Gain flatness over full band : ± 2.5 dB
- Gain variation over temp. : ± 1 dB max
- Output Power at P^{-1dB} : 39 dBm min. for 8W
: 41 dBm min. for 12W
- IM3 levels : -39 dBc
(2 carriers, each at 9 dB OPBO)
- Harmonics : < -60 dB below rated power
- In-band signal related spuri : < -60 dBc

General Characteristics

- Input voltage range : 36V to 75 V DC
- Power consumption : 60W for 8W RF
: 100W for 12W RF
- Operating temperature : -40 to +60°C
- Humidity : up to 100%
- Size : 15cm x 16cm x 16cm
- Weight : 4,2 kg

Interfaces

- Input : WR75 (grooved) / VSWR : 1.5:1
- Output : WR75 (grooved) / VSWR : 1.5:1
- M&C : MIL-C-26482-I compatible
size 14, 19-pins, female
- BUC I/O: MIL-C-26482-I compatible
size 14, 19-pins, male
- Power : MIL-C-26482-I compatible
size 10, 3-pins, male
- Fan : MIL-C-26482-I compatible
size 10, 3-pins, female

Options

- Compact Redundancy Switch
- Indoor power supply (1U unit)
- Mounting kit
- Programming cable

Alcatel Contacts

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