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## Frontend L-Band Downlink-2

### UHF Amplifier



A051118-EN

UHF Range:    1 518 ... 1 559 MHz  
DC Voltage:    12 ... 15 Volt



Project: UHF Amplifier

Technical Data

## Performance Data

- Frequency Range	1 518 ... 1 559 MHz
- Gain	typ. 40 dB
- Gain Ripple	< 1 dB
- Matching Input	RL $\geq$ 14 dB (SWR 1.5)
- Matching Output	RL $\geq$ 16 dB (SWR 1.38)
- Noise Figure	< 2 dB
- P <sub>o</sub> 1dB	$\geq$ 18 dBm
- Max. Input Power	-10 dBm
- Group Delay	< 25 ns in each 100 kHz Bandwidth

## Power Supply

- Supply Voltage	DC 12 ... 15 V / max. 6 W supplied via the RF Output Port
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## Connections

- RF In	TNC female 50 $\Omega$
- RF Out / DC In	N female 50 $\Omega$
- GND	Grounding Stud / M5



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## Environment

- |                       |            |  |
|-----------------------|------------|--|
| - Temperature         | High Temp. | A1   |
|                       | Low Temp.  | C1   |
| - Climatic Categories |            | A1, A2, A3, B1, B2, B3, C0, C1 (STANAG 2895)<br>for operation, storage and transport |
| - Vibration           |            | MIL 810 F, Point 514.5   |
| - Shock               |            | MIL 810 F, Point 516.5   |
| - Humidity            |            | 95% none condensing for incorporated<br>components                                   |
| - Type of Protection  |            | IP65   |

## Housing

- |                  |                      |   |
|------------------|----------------------|---|
| - Material       |                      | Die-Cast Aluminum<br>chromated transparent / Paint RAL 7032 |
| - Dimensions     | incl. Connectors     | 221 x 81 x 100 mm (W x H x D)                               |
|                  | incl. Mounting Plate | 270 x 90 x 100 mm (W x H x D)                               |
| - Weight         |                      | 2.2 kg  |
| - Mounting Holes | Round Holes          | 4 x $\varnothing$ 6.5 mm / 250 x 85 mm                      |
|                  | Slotted Holes        | 4 x $\varnothing$ 6 x 15 mm / 231 ... 249 x 65 mm           |



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Drawing Housing Dimensions

