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## **Frontend L-Band Up- / Downlink**

### UHF Amplifier



A060515-EN

UHF Range:    1 626 ... 1 660 MHz / 1 525 ... 1 560 MHz  
DC Voltage:    12 ... 15 Volt



Project: UHF Amplifier

Technical Data

## Performance Data

- Frequency Range	Uplink	1 626 ... 1 660 MHz
	Downlink	1 525 ... 1 560 MHz
- Gain		typ. 40 dB
- Gain Ripple		< 1 dB
- Matching Input		RL ≥ 14 dB (SWR 1.5)
- Matching Output		RL ≥ 16 dB (SWR 1.38)
- Noise Figure		< 2 dB
- P <sub>o</sub> 1dB		≥ 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

## Connections

- RF In	TNC female 50 Ω
- RF Out / DC In	N female 50 Ω
- 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)  
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  
components
- Type of Protection IP65

## Housing

- Material Die-Cast Aluminum  
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



# Hilberling

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## Data Sheet / Specifications Frontend L-Band Up- / Downlink

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Drawing Housing Dimensions

