

## Specifications

- **Working Frequency Range** 2,7 – 3,3 GHz
- **Gain** 33 dB
- **Output power** 1,1 W
- **Flatness** 0,3 dB
- **VSWR input** 1,35
- **Power supply** +12 V 0,8 A



The microwave power amplifier UM 2 is intended to amplify continuous and pulsed signals in S-band. It is used as a preamplifier or a final amplifier of transmitters.

The power amplifier is designed as a complete functional unit in a sealed enclosure with coaxial input and output.

## Maximum allowable operating conditions

| Parameter, unit                              | Symbol           | Value |         |      |
|--|------------------|-------|---------|------|
|  |                  | min.  | nominal | max. |
| Working frequency range, MHz                 | $\Delta f_P$     | 2700  | –       | 3300 |
| Supply voltage (positive), V                 | $U_{sup}$        | 11,4  | 12,0    | 12,6 |
| Supply voltage ripple, %                     | $\Delta U_{sup}$ | –     | –       | 5    |
| Peak continuous input power, mW              | $P_{in}$         | –     | –       | 20   |
| Maximum working temperature of enclosure, °C | $T_{encl.}$      | –     | –       | 70   |

## Main specifications

| Parameter, unit           | Measuring conditions  | Typical value | Limit value |
|---------------------------|---|---------------|-------------|
| Output power, W           | $P_{in}=0,5 \text{ mW}$<br>$VSWR_{\text{termination}} \leq 1,3$ | 1,1           | 1,0         |
| Output power flatness, dB | $P_{in}=1,0 \text{ mW}$<br>$VSWR_{\text{termination}} \leq 1,3$ | 0,3           | 2,0         |
| VSWR input                | $VSWR_{\text{termination}} \leq 1,3$                            | 1,35          | 2,0         |
| Current consumption, A    | $P_{in}=0,5 \text{ mW}$   | 0,8           | 1,5         |

## Outline drawing

