

Specifications

- **Working frequency range**
ELU-3-28-1 **2,87 – 3,09 GHz**
ELU-3-28-2 **3,07 – 3,29 GHz**
- **Gain** **28,5 – 31,5 dB**
- **Noise figure** **2,1 dB**
- **Gain flatness** **0,85 dB**
- **P_1 dB output** **13 dBm**
- **VSWR input/output** **1,7/1,35**
- **Power supply** **11,4 – 12,6 V 60 mA**



The amplifier with limiter ELU-3-28 is a complete functional unit that provides amplification of the input signal. It has wide dynamic range, low noise figure and allows high power input radio pulses. It is made as a pallet built into a sealed module. It has a tight sample-to-sample variation of amplitude-frequency and phase-frequency characteristics.

Maximum allowable operating conditions

Parameter	Symbol	Unit of measurement	Value
Maximum allowable input pulse power at pulse width $\tau_{pulse} = 50 \mu\text{sec}$ and duty cycle $Q=20$.	P	W	150
Supply voltage ripple	ΔU_{sup}	mV	30
Ambient temperature	T	°C	-50 ... +60
Supply voltage	U_{sup}	V	11,4 - 12,6
MTBF	t	h	>10000

Main specifications

Parameters, units of measurement	Value		
	min.	typical	max
Working frequency range, MHz			
ELU-3-28-1	2870	-	3090
ELU-3-28-2	3070	-	3290
Power gain, dB	31	-	33
Power gain flatness, dB	-	0,85	1,0
Noise figure at normal ambient temperature, dB	-	2,1	2,5
P ₁ dB output, dBm	10	13	-
Noise figure in temperature range from 0 to 60 °C, dB	-	-	2,5
Noise figure in temperature range from 0 to minus 50 °C, dB	-	-	2,0
Sample-to-sample variation of phase-frequency characteristic in batch, degrees	-	-	20
VSWR			
- output	-	1,35	1,5
- input	-	1,7	1,8
Supply voltage, V	11,4	12	12,6
Current consumption, mA	-	-	60

Outline drawing

