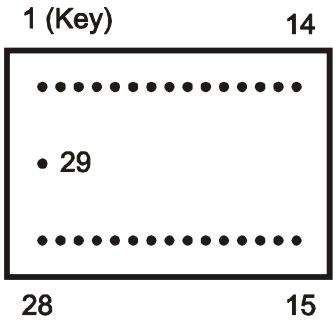
04GS025 High Frequency Oscillator

General Description

Thin-Film Hybrid Microassembly **04GS-025** is a High Frequency Reference Oscillator mostly used in communications and measurement equipment. Main advantages of this subunit are:

- high frequency stability in a broad temperature range;
- low current consumption;
- high level of output signal;

Pin Layout



Pin	Circuit
7	Frequency adjustment
8	Package
11	HF output
14	Package
28	–12 V
29	Package

Technical Parameters

Parameter, Units	Value	
	Min	Max
1. Output voltage (U_{out}), mV (R_{out} = 50 Ohm)	145*	350*
2. Voltage of power Supply (U_p), V	10	14
3. Current consumption, mA (U_p = 12 V, R_{load} = 50 Ohm)	1.5*	1.3*
4. Operating frequency of microassembly oscillation, Hz (U_p = 12 V, R_{load} = 50 Ohm)	9999950	10000050
5. Oscillation frequency variation with voltage supply variation, Hz (U_p = 10 … 14 V, R_{load} = 50 Ohm)	—	±10
6. Range of oscillation frequency tuning by external corrector, Hz (U_p = 12 V, R_{load} = 50 Ohm)	±10	—
8. Weight, g	—	18.5
9. Frequency fluctuation within (-50 … +75) °C temperature range, Hz	—	± 30
10. Spurious frequency deviation, Hz		0.35
11. Signal-to-noise merit, dB	130	—
12. Package overall dimensions, mm (pin length - 8 mm)	39.5 × 29.5 × 8.5	

Operation notes:

1. En external variable resistor (R_v = 15 ± 1.5 kOhm) should be connected between pin 7 and pin 14 for tuning to nominal operating frequency during set-up and for further frequency correction during long-term operation.
2. *) The values are given for (–50 …+75) °C temperature range.