This is a low-current, electromagnetic, hermetically sealed, polarized, bistable, two-position, high-frequency relay with one change-over contact; designed to switch DC & AC electrical circuits with frequency to 150 MHz; manufactured according to GOST 16121-86, GOST ВД 16121-86 and Бг0.450.000 ТУ.

Environmental ratings: temperate, cold and humid climate 2.

Ordering data**: Relay RPA 11 Бг4.521.014-01 Бг0.450.000 ТУ**

Technical Parameters

Type	Model	Contact Resistance, Ohm, not more than	Coil Resistance, Ohm	Operate Time, ms, not more than	Operate Amperage, A, not more than	Rated Voltage, V
RPA 11	Бг4.521.014	1,5	280±28	5	0,026	13±1,3
	Бг4.521.014-01	0,1	1100±165	5	0,013	27±3
	Бг4.521.014-02	1,5	280±28	5	0,026	13±1,3
	Бг4.521.014-03	0,1	1100±165	5	0,013	27±3
RPA 11B2	Бг4.521.016	1,5	280±28	5	0,026	13±1,3
	Бг4.521.016-01	0,1	1100±165	5	0,013	27±3
	Бг4.521.016-02	1,5	280±28	5	0,026	13±1,3
	Бг4.521.016-03	0,1	1100±165	5	0,013	27±3

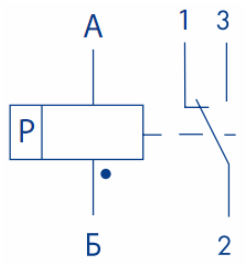
Technical Specifications

Insulation Resistance between Current Carrying Conductors, between Current Carrying Conductors and Package, mOhm :	
at normal ambient temperature	500
at maximal temperature	20
Test Voltage (effective value) between Current Carrying Conductors, between Current Carrying Conductors and Package, V :	
at normal ambient temperature	500
in conditions of high humidity	300
at low air pressure	180
Attenuation in the Closed Contact Circuit with Switching Power of 1 to 24 W, Percentage of Throughput, not more than	2
Capacitance, pf, not more than :	
between open contacts	1
between contacts and package	2
Insulation Resistance in Conditions of High Humidity, Silver Thaw and Frost nip, mOhm, not less than:	10
between contacts and coil, between contacts and package, between contacts between coil and package	5
Weight, g, not more than	20

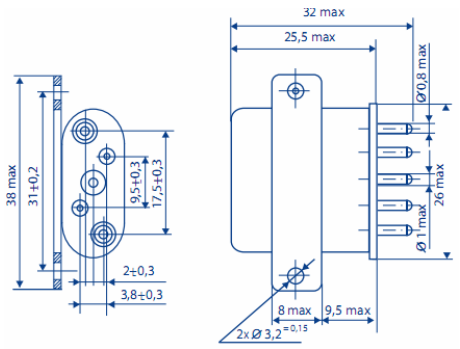
Switching Modes

Model	Switching Range		Current Type	Type of Load	Switching Frequency, Hz, not more	Number of Switching Cycles	
	I,A	U,V				Σ	at 100°C
Бг4.521.014	0,2-0,8	6-30	Const&Var (to 150MHz)	active	10	10^5	$5 \cdot 10^4$
Бг4.521.014-01	10^{-6}-10^{-5}	0,05-1					
Бг4.521.014-02	0,2-0,8	6-30					
Бг4.521.014-03	10^{-6}-10^{-5}	0,05-1					
Бг4.521.016	0,2-0,8	6-30	Const&Var (to 150MHz)	active	10	10^5	$5 \cdot 10^4$
Бг4.521.016-01	10^{-6}-10^{-5}	0,05-1					
Бг4.521.016-02	0,2-0,8	6-30					
Бг4.521.016-03	10^{-6}-10^{-5}	0,05-1					

Schematic Circuit Diagram



External Dimensions



Operating Conditions

Ambient Temperature, °C	From minus 60 to plus 100
Air Pressure, kPa, (mm of Mercury)	$1{,}33 \cdot 10^{-6}$ – $3{,}03 \cdot 10^5$ (10^{-5} - 2280)
Relative Humidity at 35 °C, %	to 98
Sinusoidal Vibration : over 5 to 50 Hz over 50 to 600 Hz over 600 to 2500 Hz	 with amplitude of 1,5 mm with acceleration to 147 m/sec ^{2} (15 g) with acceleration to 98,1 m/sec ^{2} (10 g)
Shock Loads: single shocks multiple shocks	9 shocks with acceleration of 1470 m/sec ^{2} (150g) or 10000 shocks with acceleration to 343 m/sec ^{2} (35g)
Linear Loads	to 490 m/sec ^{2} (50g)

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