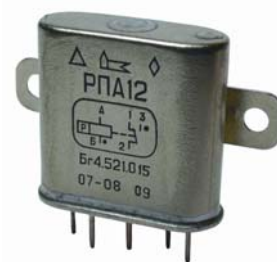


This is a low-current, electromagnetic, hermetically sealed, high-frequency, monostable, two-position relay with one change-over contact; designed for switching DC & AC electrical circuits with frequency of 150 MHz; manufactured according to GOST 16121-86, GOST ВД 16121-86 and Br0.450.000.

Environmental ratings: temperate, cold and humid climate 2.



Ordering data: Relay RPA11 **Br4.521.014-01 Br0.450.000 TY**

## Technical Parameters

Type	Model	Contact Resistance, Ohm, not more	Coil Resistance, Ohm	Operate Time, ms, not more	Operate Amperage, A, not more	Release Time, ms, not more	Release Amperage, A, not more	Rated Voltage, V
RPA 11	Br4.521.015	1,5	1100±165	5	0,013	3	0,002	27±3
RPA 12	Br4.521.015-01	0,1	1100±165	5	0,013	3	0,002	27±3
	Br4.521.015-02	0,1 (cont. 1-2) - 1,5 (cont.2-3)	1100±165	5	0,013	3	0,002	27±3
	Br4.521.015-03		280±28	5	0,026	3	0,04	13±1,3
	Br4.521.015-04	1,5	15±1,5	10	0,097	5	0,015	2,4 <sup>+0,2</sup> <sub>-0,4</sub>
	Br4.521.015-05	0,1	15±1,5	10	0,097	5	0,015	2,4 <sup>+0,2</sup> <sub>-0,4</sub>
	Br4.521.015-06	0,1	280±28	5	0,026	3	0,04	13±1,3
RPA 12B2	Br4.521.017	1,5	1100±165	5	0,013	3	0,002	27±3
	Br4.521.017-01	0,1	1100±165	5	0,013	3	0,002	27±3
	Br4.521.017-02	0,1 (cont. 1-2) - 1,5 (cont.2-3)	1100±165	5	0,013	3	0,002	27±3
	Br4.521.017-03		280±28	5	0,026	3	0,04	13±1,3
	Br4.521.017-01	1,5	15±1,5	10	0,097	5	0,015	2,4 <sup>+0,2</sup> <sub>-0,4</sub>
	Br4.521.017-02	0,1	15±1,5	10	0,097	5	0,015	2,4 <sup>+0,2</sup> <sub>-0,4</sub>
	Br4.521.017-03	0,1	280±28	5	0,026	3	0,04	13±1,3



## Technical Specifications

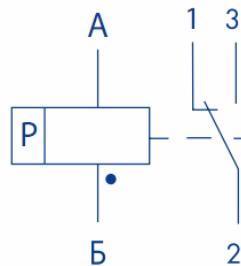
Insulation Resistance between Current Carrying Elements, between Current Carrying Elements and Package, MOhm: in normal ambient conditions at maximal temperature	500 20
Test Voltage (effective value) between Current Carrying Elements, between Current Carrying Elements and Package, V: at normal ambient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

## Switching Modes

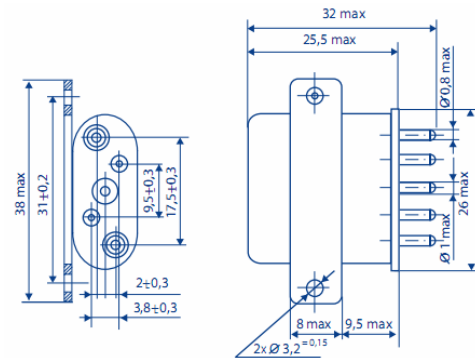
Model	Switching Range		Current Type	Type of Load	Switching Frequency, Hz, not more	Number of Switching Cycles	
	I,A	U,V				$\Sigma$	At t =100°C
1	2	3	4	5	6	7	8
Br4.521.015	0,2-0.8	6-30	const&var (to 150MHz)	active	10	$10^5$	$5 \cdot 10^4$
Br4.521.015-01	$10^{-6}$ - $10^{-5}$	30-110	const&var (to 150MHz)	active	10	$10^5$	$5 \cdot 10^4$
Br4.521.015-02 (cont. 2-3)	0,1-0.2	30-110	const&var (to 10000MHz)	active	10	$10^5$	$5 \cdot 10^4$
Br4.521.015-02 (cont. 1-2)	$10^{-5}$ - $10^{-4}$	0,5-10	const&var (to 150MHz)	active	10	$10^5$	$5 \cdot 10^4$
Br4.521.015-03 (cont. 2-3)	0,05-0,1	40-250	const&var (to 10000MHz)	active	10	$10^5$	$5 \cdot 10^4$
Br4.521.015-03 (cont. 2-3)	$10^{-4}$ -0,2	2-30	const&var (to 150MHz)	active	10	$10^5$	$5 \cdot 10^4$
Br4.521.015-04	0,05-0,4	6-30	const	inductive t<15 ms	1	$5 \cdot 10^4$	$2,5 \cdot 10^4$
	0,1-0,4		var (to 10000MHz)	inductive cosφ > 0,3	10	$10^5$	$5 \cdot 10^4$
Br4.521.015-05	$10^{-4}$ -0,1	2-30	var (to 10000MHz)	inductive cosφ > 0,3	2	$5 \cdot 10^4$	$2,5 \cdot 10^4$
Br4.521.015-06	0,005-0,06	2-30	const	Inductive t < 50 ms	2	$5 \cdot 10^4$	$2,5 \cdot 10^4$
	0,06-0,15			Inductive t<15 ms	1	$5 \cdot 10^4$	$2,5 \cdot 10^4$
Br4.521.017	0,2-0.8	6-30	const&var (to 150MHz)	active	10	$10^5$	$5 \cdot 10^4$
Br4.521.017-01	$10^{-6}$ - $10^{-5}$	30-110	const&var (to 150MHz)	active	10	$10^5$	$5 \cdot 10^4$
Br4.521.017-02 (cont. 2-3)	0,1-0.2	30-110	const&var (to 10000MHz)	active	10	$10^5$	$5 \cdot 10^4$

1	2	3	4	5	6	7	8
Бг4.521.017-02 (КОИТ. 1-2)	$10^{-5}$ - $10^{-4}$	0,5-10	const&var (to 150MHz)	active	10	$10^5$	$5 \cdot 10^4$
Бг4.521.017-03 (КОИТ. 2-3)	0,05-0,1	40-250	const&var (to 10000MHz)	active	10	$10^5$	$5 \cdot 10^4$
Бг4.521.017-03 (КОИТ. 2-3)	$10^{-4}$ -0,2	2-30	const&var (to 150MHz)	active	10	$10^5$	$5 \cdot 10^4$
Бг4.521.017-04	0,05-0,4	6-30	const	inductive $t < 15$ ms	1	$5 \cdot 10^4$	$2,5 \cdot 10^4$
	0,1-0,4		var (to 10000MHz)	inductive $\cos\varphi > 0,3$	10	$10^5$	$5 \cdot 10^4$
Бг4.521.017-05	$10^{-4}$ -0,1	2-30	var (to 10000MHz)	inductive $\cos\varphi > 0,3$	2	$5 \cdot 10^4$	$2,5 \cdot 10^4$
Бг4.521.017-06	0,005-0,06	2-30	const	inductive $t < 50$ ms	2	$5 \cdot 10^4$	$2,5 \cdot 10^4$
	0,06-0,15			inductive $t < 15$ ms	1	$5 \cdot 10^4$	$2,5 \cdot 10^4$

### 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 $147 \text{ m/sec}^2$ (15 g) with acceleration to $98,1 \text{ m/sec}^2$ (10 g)
Shock Loads : single shocks multiple shocks	9 shocks with acceleration of $1470 \text{ m/sec}^2$ (150g) or 10000 with acceleration to $343 \text{ m/sec}^2$ (35g)
Linear Loads	to $245 \text{ m/sec}^2$ (25g)