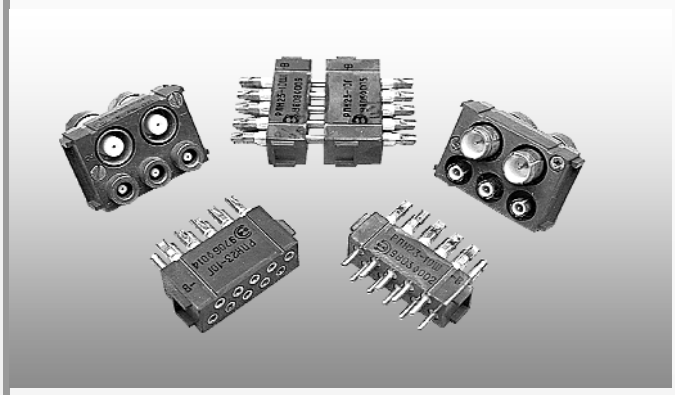
Type of connectors
RPN 23



Application

They are used in electronic installations and radio equipment as connectors of the general type

Standarts

OST V 11 0121-91
GEO.364.230 Specification

Design description

- cut in type
- climatic version V
- contacts plating: gold, silver
- wiring method: soldering
- low frequency and radio frequency

Characteristics

Mechanical

vibration:
frequency range, Hz - 1...2000
acceleration, m/s²- 300 (30g)

single impact:
acceleration, m/s² - 1500 (150g)

multiple impacts:
acceleration, m/s² - 350 (35g)

linear loads:
acceleration, m/s² - 500 (50g)

Reliability requirements

minimum operating time, h
10000
with matings -unmatings
1000

minimum storage life,
15 years

Electrical

maximum operating direct current voltage or amplitude voltage value of alternative current
ref. table 2
operating current across the contact
ref. table 1

resistance of electric contact, not more than
for low frequency contacts- 2,5 mOhm
for radio frequency contacts-10mOhm

insulation resistance in normal climatic conditions, not less than
for low frequency - 5000 MOhm
for radio frequency - 1000 MOhm

Climatic

ambient temperature,
from minus 60 - to plus 100°C

change of temperature ,
from minus 60 °C- to plus 130°C
(taking in the account the temperature of contacts overheat)

atmospheric pressure decrease, operating Pa (mm.Hg)

0,13 ($1x10^{-3}$)

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Designation

	RPN23	3	G	2-	S-	V
Type						
Number of contacts: 3 - radio frequency 5 - radio frequency 10 - low frequency						
Type of contacts: SH - plug (male connector) G - socket (female connector)						
Additional designation, indicating that in the connector (plug, socket) there are no contacts № 3, 4, 5 (ref. Figures 5,6)						
Additional designation is only for the plugs (sockets) with silver plating of the contacts Note Plating of contacts without additional designation - gold						
Universal climatic version						

Designation while placing the order:

Plug RPN23-10SH-V GEO.364.230 Specification
Socket RPN23-3G-V GEO.364.230 Specification
Plug RPN23-10SHS-V GEO.364.230 Specification
Socket RPN23-3GS-V GEO.364.230 Specification

Design and dimensions of connectors of the RPN23 type are given in the drawings 1-8

Table 1

Number of low frequency contacts in stackable connector of the user, pcs., not more than	Operating current across each contact, A
20 40 80 120 160	5,0 4,0 3,0 2,0 1,6

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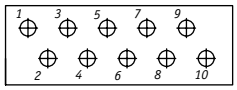
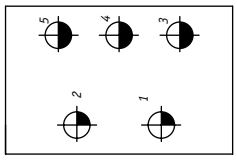
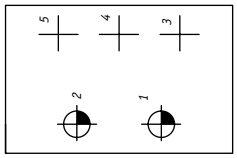
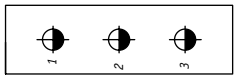
Contacts location diagrams

Table 2

Conventional designation of connector (plugs, sockets)	Contacts location diagram	Type and diameter of contact		Number of contacts, pcs.	Maximum operating pressure,V
		НЧ	РЧ		
RPN23-10SH RPN23-10G RPN23-10SHS RPN23-10GS		1,5	-	10	355
RPN23-5SH RPN23-5G RPN23-5SHS RPN23-5GS		-	0,5	3	145
			0,8	2	355
RPN23-5SH2 RPN23-5G2 RPN23-5SH2S RPN23-5G2S		-	0,8	2	355
RPN23-3SH RPN23-3G RPN23-3SHS RPN23-3GS		-	0,5	3	145

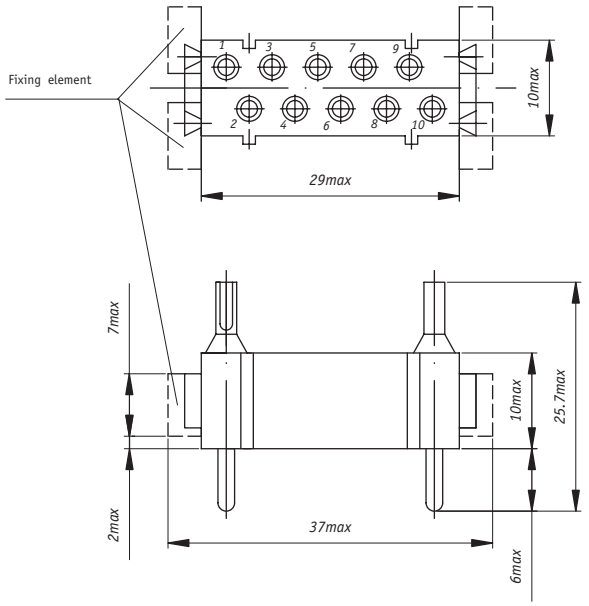


Figure 1 - Plug RPN23-10SH
- Plug RPN23-10SHS

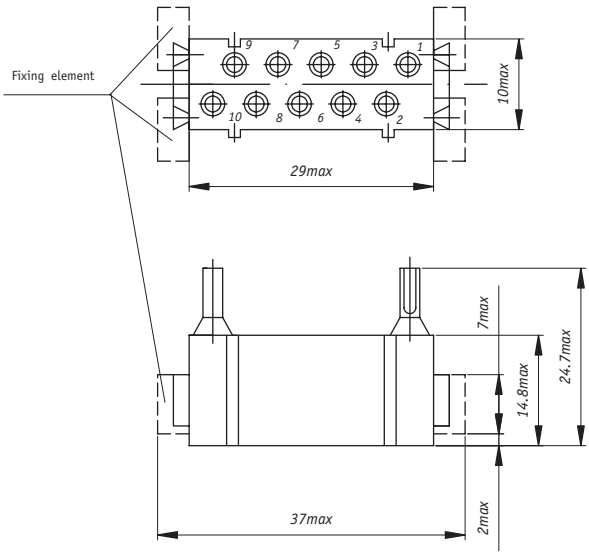


Figure 2 - Socket RPN23-10G
- Socket RPN23-10GS

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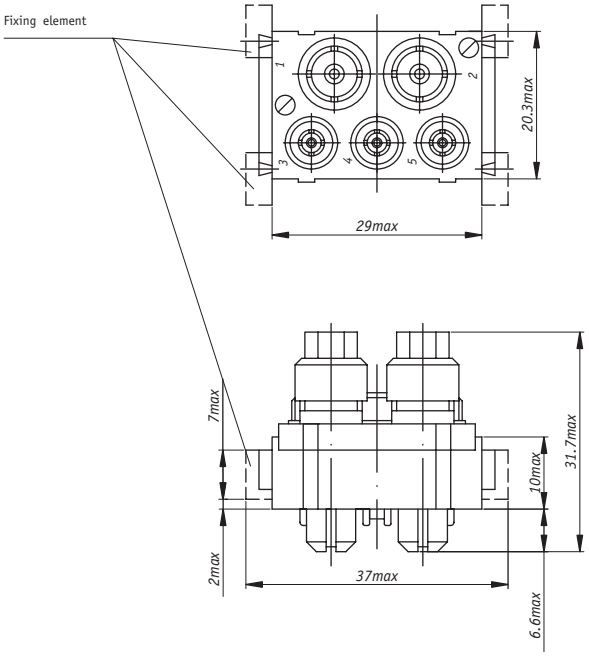

Figure 3 - Plug RPN23-5SH
- Plug RPN23-5SHS

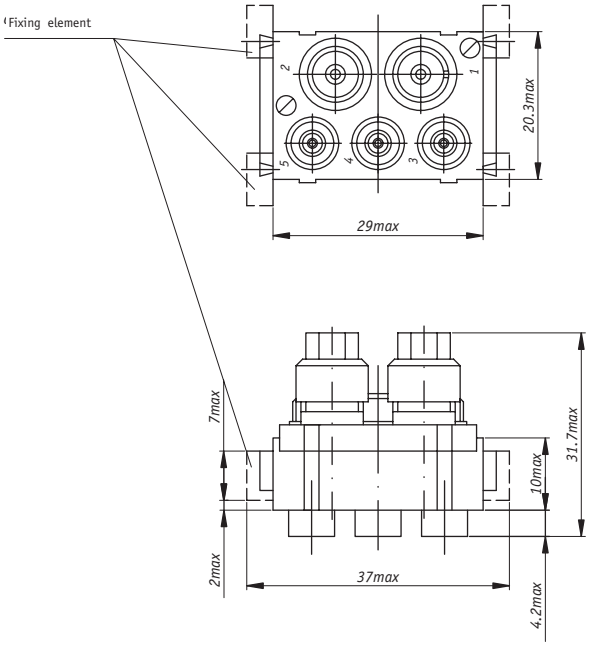

Figure 4 - Socket RPN23-5G
- Socket RPN23-5GS

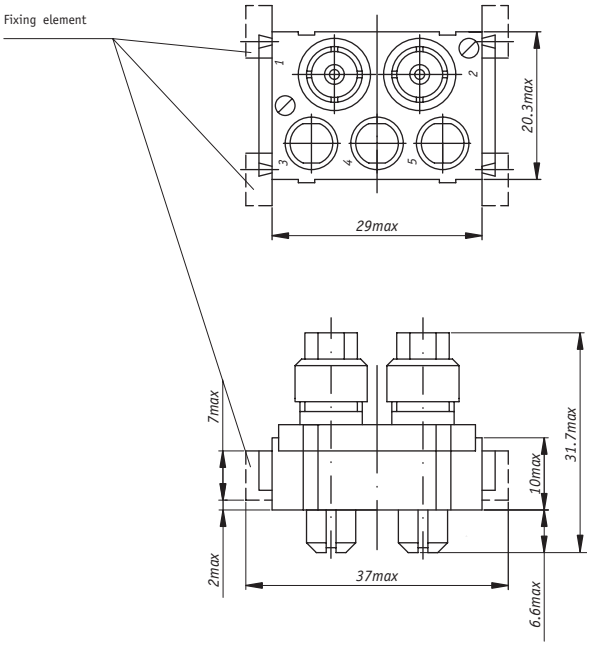

Figure 5 - Plug RPN23-5SH2
- Plug RPN23-5SH2S

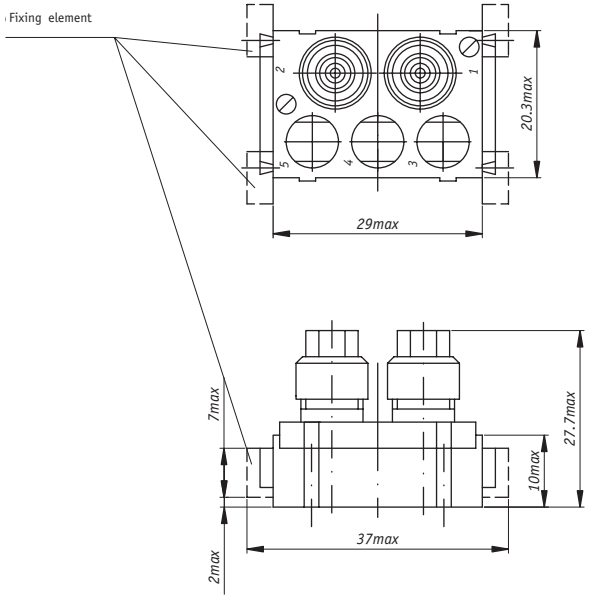

Figure 6 - Socket RPN23-5G2
- Socket RPN23-5G2S

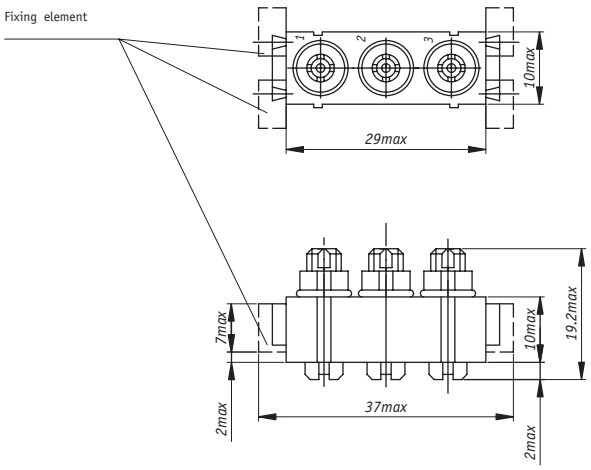

Figure 7 - Plug RPN23-3SH
- Plug RPN23-3SHS

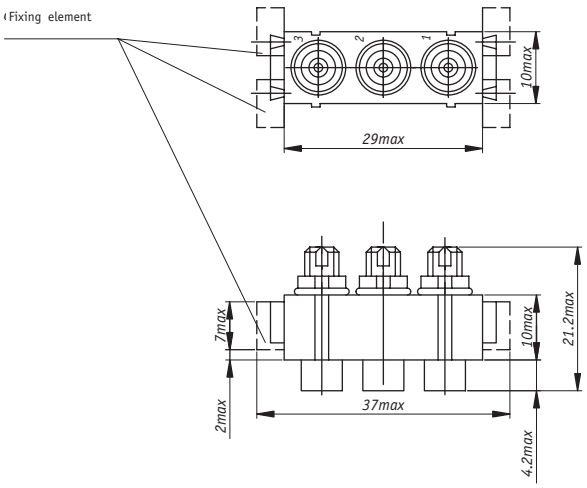

Figure 8 - Socket RPN23-3G
- Socket RPN23-3GS

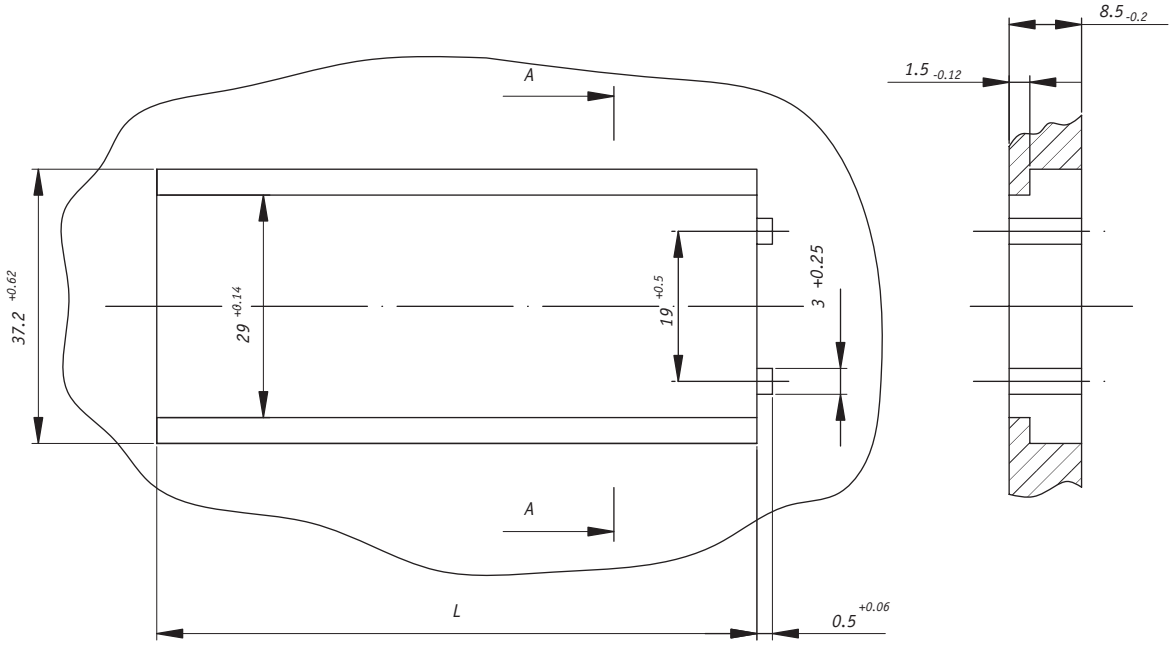

Figure 9 - Dimension of blocks seat

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Table 3

Number of separate plugs or sockets in the block, pcs.	Plugs mounting dimension (sockets)	L, мм
1	$10_{-0,2}$	$10,0^{+0,1}$
2	$20,3^{+0,2}_{-0,4}$	$20,0^{+0,14}$
3	$30,6^{+0,3}_{-0,5}$	$30,2^{+0,17}$
4	$40,9^{+0,4}_{-0,6}$	$40,4^{+0,17}$
5	$51,2^{+0,5}_{-0,7}$	$50,5^{+0,2}$
6	$61,5^{+0,6}_{-0,8}$	$60,8^{+0,2}$
7	$71,8^{+0,7}_{-0,9}$	$71,0^{+0,2}$
8	$82,1^{+0,8}_{-1,0}$	$81,2^{+0,23}$
9	$92,4^{+0,9}_{-1,1}$	$91,4^{+0,23}$
10	$102,7^{+1,0}_{-1,2}$	$101,6^{+0,23}$
11	$113,0^{+1,1}_{-1,3}$	$111,8^{+0,23}$

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