

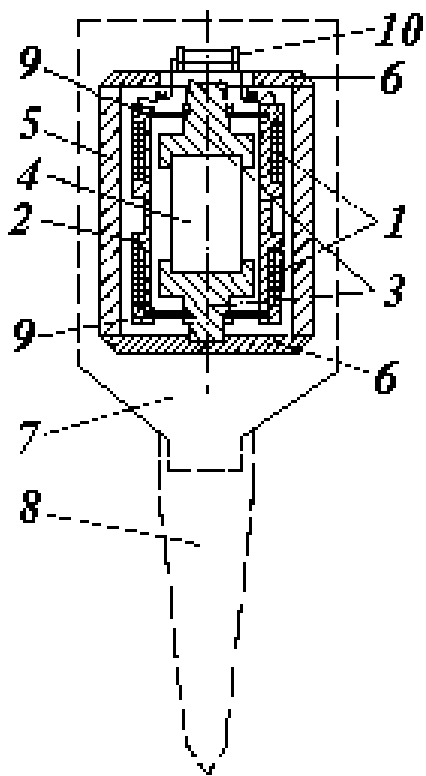
1.

2.

2.1.

SH SV,

()



.1

(.2),

()

1

2,

3

4

-

5.

6

7.

8,

9.



a



б



в

.2.

: -

; -

;

-4,
 $y(t),$



.3.

: -
 (-21); -
 (-7).

INPUT/OUTPUT() SERCEL()

().

(), 1 1 .

128 ;

().

(ASIC).

24

()

().

+ASIC,

().

(0.5)



a



b

. 4.

+ASIC

SERCEL:

; -

2.2

()

:

$$u(t) = u_0 e^{-ht} \sin(2\pi f t + \phi)$$

(1)

$u_0 >$

$\phi >$

($t = 0$); $h >$

:

$$f = \sqrt{f_0^2 - (h/2\pi)^2},$$

(2)

$$f_0 = \sqrt{K/M} / (2\pi) >$$

$M >$

$K >$

()

h

$$b = h/2\pi f_0$$

R,

- b = 0 %
- b < 100 %
- b = 100 %
- b > 100 %

()

$$Kc(f) = \frac{A_1(f)}{A_0(f)} = \frac{\dots^2}{\sqrt{(1 - \dots^2)^2 + 4b^2 \dots^2}}, \quad (3)$$

$$\rho = f/f_0$$

$\xi_1(\xi)$

$\xi_0(\xi)$.

$$\chi c(f) = \xi_1(f) - \xi_0(f) = \arctg \frac{-2b\dots}{1 - \dots^2} \quad (4)$$

>0,7.

<0,7.

0,1 - 3

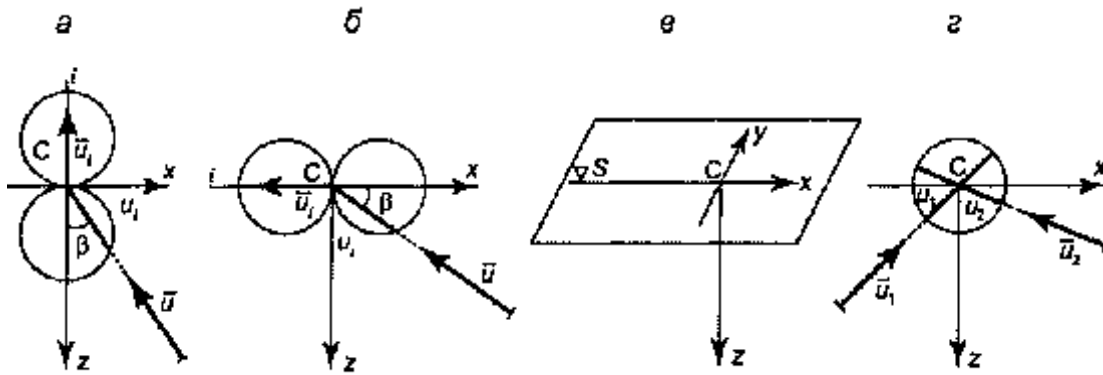
(0,1 - 800).

+ASIC)

$$u = u_0 \cos \Gamma,$$

$$u_0 >$$

; $r >$



.5.

(. . . .5,).

3.

1. 70, 100 200 %,
- 2.

0-100

1

b = 25, 50,

f₀,

3.

(0.7 ≤ K_c ≤ 1.2).

4.

f ,

4.

- 1.
- 2.
- 3.

0-100

b = 25, 50, 70, 100 200 %.

5.

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.

()

1.

	f₀,	f₁ ,
1	10	6
2	12	8
3	14	10
4	16	12
5	18	14
6	20	16

7	22	18
8	24	20
9	26	7
10	28	9
11	30	11
12	32	13