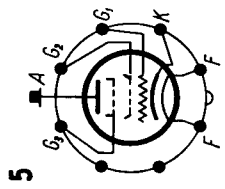


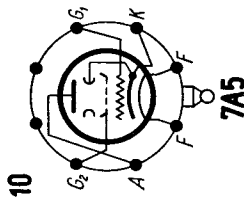
| T.    | Image 1 | Image 2 | U <sub>f</sub> | I <sub>f</sub> | Cl. | U <sub>a</sub> | U <sub>g2</sub> | U <sub>g1</sub> | I <sub>a</sub>   | I <sub>g2</sub> | S    | R <sub>i</sub> | μ  | R <sub>k</sub>                                       | R <sub>o</sub> | P <sub>o</sub> | U <sub>g1</sub> ≈ | h   |
|-------|---------|---------|----------------|----------------|-----|----------------|-----------------|-----------------|--|-----------------|------|----------------|----|--|----------------|----------------|-------------------|-----|
|       |         |         |                |                |     |                |                 |                 |  |                 |      |                |    |  |                |                |                   |     |
| EL 8  | eur     | 1       | 6,3            | 0,5            | A 1 | 250            | 250             | - 7,5           | 20   | 3,2             | 5,5  | 60             |    | 320  | 12,5           | 2              | 3,8               | 10  |
| EL 13 | Tif     | 2       | 6,3            | 0,5            | A 1 | 250            | 275             | -               | maximum (I <sub>k</sub> = 28 mA; P <sub>a</sub> = 5 W; P <sub>g2</sub> = 0,8 W; R <sub>g1</sub> = 1 MΩ; U <sub>flk</sub> = 50 V) | 3,5             | 3,2  | 90             | 11 | 360  | 9              | 2,1            | 6,8               | 11  |
| EL 42 | eur     | 3       | 6,3            | 0,2            | A 1 | 200            | 225             | - 9,3           | 22,5   | 4,1             | 3,2  | 90             | 11 | 360  | 9              | 2,8            | 8                 | 12  |
| EL 85 | eur     | 4       | 6,3            | 0,2            | B   | 200            | 250             | -17             | (16 ÷ 17) × 2  | (2,6 ÷ 5,6) × 2 | 3,2  | 3,2            |    | 310  | 15             | 4,1            | 9,6               | 5,5 |
|       |         |         |                |                |     | 250            | 200             | -22,5           | (20 ÷ 21,5) × 2  | (3,2 ÷ 6,7) × 2 |      |                |    |  |                |                |                   |     |
| EL 44 | Phl     | 5       | 6,3            | 0,72           | A 1 | 250            | 300             | -22,5           | maximum (I <sub>k</sub> = 35 mA; P <sub>a</sub> = 6 W; P <sub>g2</sub> = 1 W; R <sub>g1</sub> = 1 MΩ; U <sub>flk</sub> = 100 V)  | 3,3             | 5    | 10             |    | (P <sub>a</sub> = 5 W; U <sub>a(imp)</sub> = 3500 V) |                |                |                   |     |
| EL 88 | Sim     | 6       | 6,3            | 0,75           | A 1 | 200            | 200             | - 4,5           | 33   | 4,6             | 9,75 | 48             | 20 | (P <sub>a</sub> = 6,25 W)                            |                |                |                   |     |

| T.                 | Logo | Logo | U <sub>f</sub> | I <sub>f</sub> | Cl. | U <sub>a</sub> | U <sub>g2</sub> | U <sub>g1</sub> | I <sub>a</sub>   | I <sub>g2</sub>   | S    | R <sub>i</sub> | μ                        | R <sub>k</sub>           | R <sub>o</sub> | P <sub>o</sub>           | U <sub>g1</sub> ≈ | h   |     |
|--------------------|------|------|----------------|----------------|-----|----------------|-----------------|-----------------|--|---|------|----------------|--------------------------|--------------------------|----------------|--------------------------|-------------------|-----|-----|
|                    |      |      |                |                |     |                |                 |                 |  |   |      |                |                          |                          |                |                          |                   |     | V   |
| EL 95              | eur  | 7    | 6,3            | 0,2            | A 1 | 200            | 200             | - 6,5           | 23   | 4,2   | 5    | 80             | 17                       | 230                      | 8              | 2,3                      | 4,5               | 12  |     |
|                    |      |      |                |                |     | 250            | 250             | - 9             | 24   | 4,5   |      |                |                          |                          |                |                          |                   |     |     |
|                    |      |      |                |                |     | 200            | 200             |                 | (17,5 ÷ 20) × 2  | (3,2 ÷ 5,2) × 2   |      |                |                          |                          |                |                          |                   |     |     |
|                    |      |      |                |                |     | 250            | 250             |                 | (22 ÷ 26) × 2  | (4 ÷ 7,5) × 2   |      |                |                          |                          |                |                          |                   |     |     |
|                    |      |      |                |                |     | 200            | 200             | - 10            | (7 ÷ 19) × 2   | (1,2 ÷ 5) × 2   |      |                |                          |                          |                |                          |                   |     |     |
|                    |      |      |                |                |     | 250            | 250             | - 13            | (8 ÷ 24) × 2   | (1,2 ÷ 7,2) × 2   |      |                |                          |                          |                |                          |                   |     |     |
| 6 AS 5             | amer | 8    | 6,3            | 0,8            | A 1 | 150            | 110             | - 8,5           | 35   | 2   | 5,6  | 1,25           | 1,25                     | 2 MΩ                     | 2 MΩ           | U <sub>fjk</sub> = 100 V | 6                 | 10  |     |
|                    |      |      |                |                |     | 150            | 117             |                 | maximum (P <sub>a</sub> = 5,5 W; P <sub>g2</sub> = 1 W; R <sub>g1</sub> = 0,5 MΩ; U <sub>fjk</sub> = 90 V)   |   |      |                |                          |                          |                |                          |                   |     |     |
| 6 BF 5             | amer | 9    | 6,3            | 1,2            | A 1 | 110            | 110             | - 7,5           | 36   | 4   | 7,5  | 12             | 2,5 (6,7)                | 2,5                      | 1,9            | 7,5                      | 10                | 10  |     |
|                    |      |      |                |                |     | 225            | Fig. 1          | - 30            | 10   | —   |      |                |                          |                          |                |                          |                   |     |     |
| 6 CA 5             | amer | 8    | 6,3            | 1,2            | A 1 | 110            | 110             | - 4             | 32 ÷ 31  | 3,5 ÷ 7,5   | 8,1  | 16             | R <sub>g1</sub> = 2,2 MΩ | U <sub>fjk</sub> = 200 V | 3,5            | 1,1                      | 4                 | 5   |     |
|                    |      |      |                |                |     | 125            | 125             | - 4,5           | 37 ÷ 36  | 4 ÷ 11  |      |                |                          |                          |                |                          |                   |     |     |
| 17 CA 5            | amer | 8    | 16,8           | 0,45           | A 1 | 130            | 130             |                 | maximum (P <sub>a</sub> = 5 W; P <sub>g2</sub> = 1,4 W; R <sub>g1</sub> = 0,5 MΩ; U <sub>fjk</sub> = 200 V)  |   |      |                |                          |                          |                |                          |                   |     |     |
|                    |      |      |                |                |     | 130            | 130             |                 |  |   |      |                |                          |                          |                |                          |                   |     |     |
| 25 CA 5            | amer | 8    | 25             | 0,3            | A 1 | 120            | 110             | - 8             | 49   | 4   | 7,5  | 10             | 2,5                      | 2,3                      | 5,7            | 10                       | 10                | 10  |     |
|                    |      |      |                |                |     | 135            | 117             |                 | maximum (P <sub>a</sub> = 6 W; P <sub>g2</sub> = 1,25 W; R <sub>g1</sub> = 0,5 MΩ; U <sub>fjk</sub> = 200 V) |   |      |                |                          |                          |                |                          |                   |     |     |
| 6 CU 5             | amer | 8    | 12,6           | 0,6            | A 1 | 110            | 115             |                 | 42   | 11,5 ÷ 14,5   | 14,6 | 11             | 62                       | 3                        | 1,4            | 3                        | 7                 | 7   |     |
|                    |      |      |                |                |     | 140            | 120             |                 | (23,5 ÷ 25,5) × 2  | (5,5 ÷ 8,9) × 2   |      |                |                          |                          |                |                          |                   |     |     |
| 12 EH 5            | RCA  | 16   | 6,3            | 1,2            | A 1 | 150            | 130             |                 | maximum (P <sub>a</sub> = 5 W; P <sub>g2</sub> = 1,75 W; U <sub>fjk</sub> = 200 V)                           |   |      |                |                          |                          |                |                          |                   |     |     |
|                    |      |      |                |                |     | 150            | 130             |                 |  |   |      |                |                          |                          |                |                          |                   |     |     |
| 25 EH 5            | RCA  | 16   | 25             | 0,3            | AB  | 110            | 110             |                 | 40   | 3   | 5,8  | 14             | 2,5                      | 1,5                      | 7,5            | 10                       | 10                | 10  |     |
|                    |      |      |                |                |     | 125            | 125             | - 9             | 44   | 3,3   |      |                |                          |                          |                |                          |                   |     |     |
| 50 EH 5            | RCA  | 16   | 50             | 0,15           | AB  | 125            | 125             |                 | maximum (P <sub>a</sub> = 5 W; P <sub>g2</sub> = 1,2 W)  |   |      |                |                          |                          |                |                          |                   |     |     |
|                    |      |      |                |                |     | 150            | 130             |                 |  |   |      |                |                          |                          |                |                          |                   |     |     |
| 7 A 5              | amer | 10   | 6,3            | 0,75           | A 1 | 110            | 110             | - 7,5           | 25   | maximum (impulse) (P <sub>a</sub> = 5 W; P <sub>g2</sub> = 1 W; U <sub>fjk</sub> = 150 V) |      |                |                          |                          |                |                          |                   |     |     |
|                    |      |      |                |                |     | 125            | 125             | - 9             | 44   | 3,3   |      |                |                          |                          |                |                          |                   |     |     |
| 11 E 2             | Maz  | 11   | 6,3            | 0,9            | A 1 | 200            | 200             |                 | 1000   | maximum (impulse) (P <sub>a</sub> = 5 W; P <sub>g2</sub> = 1 W; U <sub>fjk</sub> = 150 V) |      |                |                          |                          |                |                          |                   |     |     |
|                    |      |      |                |                |     | 12.500         | 550             |                 | 7  | 1,2   |      |                |                          |                          |                |                          |                   |     |     |
| 38                 | amer | 12   | 6,3            | 0,3            | A 1 | 100            | 100             | - 9             | 22   | 3,8   | 1,2  | 100            | 15                       | 0,27                     | 2,5            | 2,2                      | 9                 | 10  |     |
|                    |      |      |                |                |     | 250            | 250             | - 25            | 9,5  | 1,6   |      |                |                          |                          |                |                          |                   |     |     |
| 89                 | amer | 13   | 6,3            | 0,4            | A 1 | 100            | 100             | - 10            | 32   | 5,5   | 1,8  | 70             | 10,7                     | 0,33                     | 6,7            | 3,4                      | 9                 | 9   |     |
|                    |      |      |                |                |     | 250            | 250             | - 25            | 21   | 4   |      |                |                          |                          |                |                          |                   |     |     |
| 5639 <sup>1)</sup> | amer | 14   | 6,3            | 0,45           | A 1 | 150            | 100             |                 | 100  | 100   | 9    | 50             | 100                      | 100                      | 100            | 100                      | 100               | 100 | 100 |
|                    |      |      |                |                |     | 150            | 100             | 0               | 34   | 8   |      |                |                          |                          |                |                          |                   |     |     |
| 6145               | amer | 15   | 6,3            | 0,6            | A 1 | 150            | 100             |                 | 100  | 100   |      |                |                          |                          |                |                          |                   |     |     |

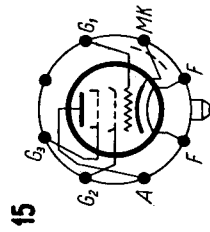
<sup>1)</sup> vide \* 4, a, b, c, d, f, g (U<sub>f</sub> = 6,3 V ± 5%)



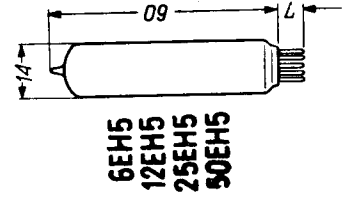
EL44



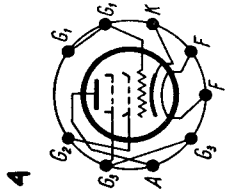
7A5



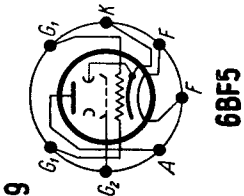
6145



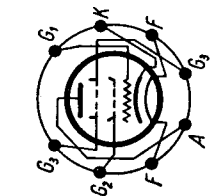
6EH5  
12EH5  
25EH5  
50EH5



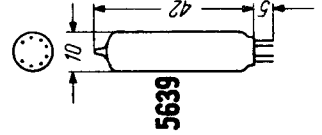
EL85



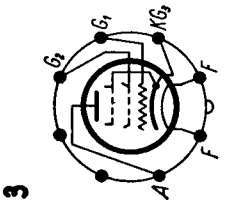
6BF5



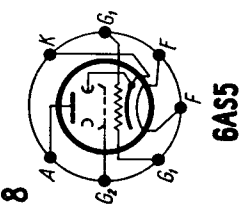
5639



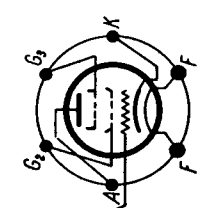
5639



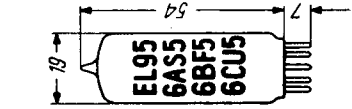
EL42



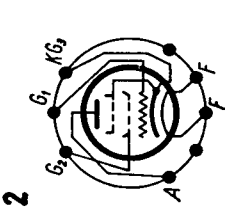
6AS5



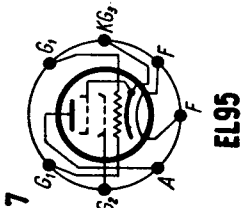
89



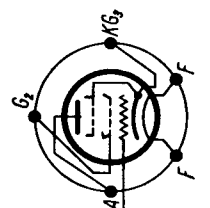
EL95  
6AS5  
6BF5  
6CU5



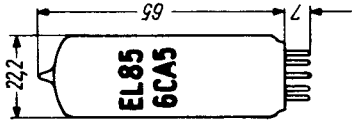
EL13



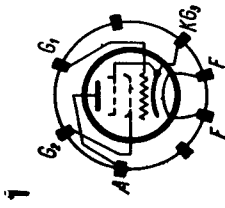
EL95



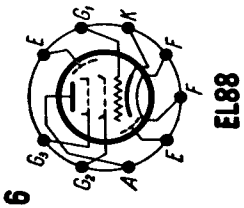
38



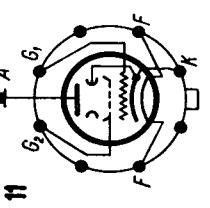
EL85  
6CA5



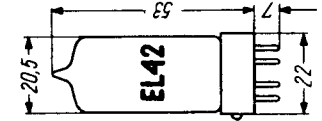
EL18



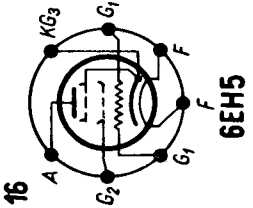
EL88



11E2



EL42



6EH5

| T.     | $C_{g1k}$ |     | $C_{d1k}$ |    | $C_{g1a}$ |    | $C_{g1f}$ |    |
|--------|-----------|-----|-----------|----|-----------|----|-----------|----|
|        | pF        | pF  | pF        | pF | pF        | pF | pF        | pF |
| EL 13  |           |     |           |    | 0,5       |    |           |    |
| EL 42  | 4,3       | 6,2 |           |    | 0,2       |    | 0,2       |    |
| EL 85  | 4,3       | 5,1 |           |    | 0,2       |    |           |    |
| EL 95  | 5,3       | 3,5 |           |    | 0,4       |    | 0,2       |    |
| 6 AS 5 | 12        | 6,2 |           |    | 0,6       |    |           |    |
| 6 BF 5 | 14        | 6   |           |    | 0,65      |    |           |    |
| 6 CA 5 | 15        | 9   |           |    | 0,5       |    |           |    |
| 6 CU 5 | 13,2      | 8,6 |           |    | 0,7       |    |           |    |
| 6 EH 5 | 17        | 9   |           |    | 0,65      |    |           |    |
| 11 E 2 | 15,5      | 7,5 |           |    | 0,2       |    |           |    |

**Equivalents**

|                       |      |   |       |
|-----------------------|------|---|-------|
| BF 62                 | Maz  | = | EL 42 |
| CK 5639 <sup>1)</sup> | Ray  | = | 5639  |
| N 151                 | Marc | = | EL 42 |
| SN 953 D              | Syl  | = | 5639  |
| UX 182                | amer | = | 38    |
| UX 183                | amer | = | 38    |
| UY 238                | amer | = | 38    |
| 6 BN 5                | amer | = | EL 85 |
| 138 A                 | amer | = | 38    |
| 238                   | amer | = | 38    |
| 338                   | amer | = | 38    |
| 438                   | amer | = | 38    |
| 638                   | amer | = | 38    |

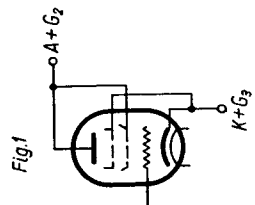


Fig.1

