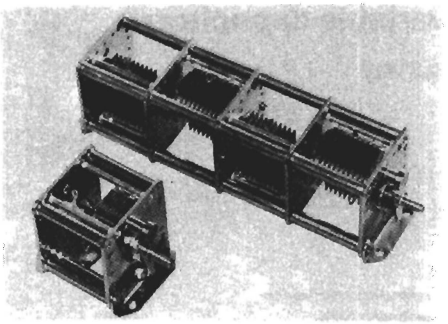
# variable capacitors

## precision tuning capacitors



### 2222 805

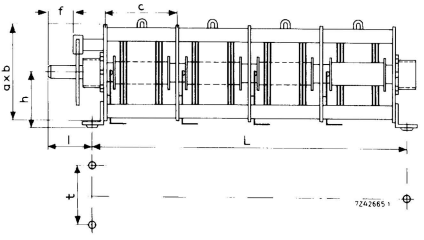
These capacitors are used in the top flight of telecommunication and measuring equipment. They feature high stability under extreme conditions, close law tolerance, and allow design flexibility. We can supply standard products as shown below, or custom designs to meet your specific needs – including special laws and gear mechanisms.

| | |
|---|---|
| Rated d.c. voltage | 50 to 75% of test voltage depending on ambient conditions |
| Category temperature range | −40 to +85 °C |
| Temperature coefficient | 20 to 50 ppm/ °C |
| Insulation resistance | > 10 000 MΩ |
| Contact resistance | ⩽ 5 mΩ |

| | **linear law** a x b = 40 x 40 mm | | | | **linear law** a x b = 60 x 60 mm | | | | **logarithmic law** a x b = 60 x 60 mm | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | single-stator or differential type | | split-stator type | | single-stator type | | split-stator type | | single-stator type | | split-stator type | |
| nom swing pF | $C_{min}$ ± 1 pF pF | d.c. test voltage V | $C_{min}$ ± 1 pF pF | d.c. test voltage V | $C_{min}$ ± 1 pF pF | d.c. test voltage V | $C_{min}$ ± 1 pF pF | d.c. test voltage V | $C_{min}$ ± 1 pF pF | d.c. test voltage V | $C_{min}$ ± 1 pF pF | d.c. test voltage V |
| 10 | | | 3 | 3000 | | | | | | | | |
| 16 | 8 | 2500 | 3,6 | 2000 | | | | | | | | |
| 25 | 8,5 | 2000 | 4 | 2000 | | | 5 | 4000 | | | 5 | 2500 |
| 32 | | | | | | | 5 | 3000 | | | 5 | 2500 |
| 40 | 9 | 1500 | 4 | 1600 | | | 5 | 3000 | | | 5,5 | 2000 |
| 50 | | | | | | | 5 | 2500 | | | 5,5 | 2000 |
| 64 | 9 | 1000 | 4 | 1300 | | | 5,5 | 2000 | | | 5,5 | 1600 |
| 80 | | | | | | | 5,5 | 2000 | | | 5,5 | 1600 |
| 100 | 10 | 1000 | | | 14,5 | 2000 | 5,5 | 2000 | 13 | 1500 | 5,5 | 1600 |
| 125 | | | | | 15 | 2000 | 6 | 1600 | 13 | 1250 | 5,5 | 1300 |
| 160 | 11 | 800 | | | 15,5 | 1500 | | | 14,5 | 1000 | | |
| 200 | | | | | 16 | 1250 | | | 14,5 | 1000 | | |
| 250 | 11,5 | 650 | | | 16 | 1250 | | | 14 | 1000 | | |
| 320 | | | | | 17,5 | 1000 | | | 14 | 800 | | |
| 400 | | | | | 19 | 1000 | | | 14 | 800 | | |
| 500 | | | | | 20,5 | 1000 | | | 14 | 650 | | |
| 640 | | | | | 21,5 | 800 | | | | | | |

Dimensions (mm)

| a x b | | 40 x 40 | 60 x 60 |
|---|---|---|---|
| L | 1 gang | 45 | 67 |
| | 2 gangs | 76,5 | 117,5 |
| | 3 gangs | 108 | 168 |
| | 4 gangs | 139.5 | 218,5 |
| t | | 22 | 35 |
| c | | 31,5 | 50,5 |
| l | | 16 | 18 |
| h | | 22,5 | 32,5 |
| f | | 10 | 14,5 |



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## survey

**For detailed information**
**Handbook CM2b**

**Precision tuning capacitors**
Used in the top flight of telecommunication and measuring equipment. They feature high stability under extreme conditions, close law tolerance, and allow design flexibility.

**Tubular ceramic trimmers**
Compact, rugged, reliable, and environmentally immune, these tubular trimmers come in a broad range of styles. Unique design and process technology plus extensive mechanization ensure low parameter spreads, low losses and negligible d.c. leakage with a long operational life.

**Film dielectric trimmers**
State-of-the-art in both design and materials, these capacitors bring the advantages of film dielectric to the trimmer field. While taking the same or less space than conventional trimmers, they offer superior performance and better adjustment means at lower cost.

| application | capacitance max $C_{min}$/ min $C_{max}$ pF | rated d.c. voltage V | temperature coefficient range ppm/ °C | series no. | status | page |
|---|---|---|---|---|---|---|
| **Precision tuning capacitors** | 10 to 640 | 400/1500 | 20 to 50 | 805 | D | 368 |
| **Tubular ceramic trimmers** | | | | | | |
| v.h.f.; radio, tv | 0,8/3 to 1/12 | 400/500 | −200 ± 200<br>−300 ± 200 | 801 200 | D | 369 |
| v.h.f. and u.h.f. | 0,5/3 to 0,7/6 | 500 | + 150 ± 100 | 801 960 | C | 369 |
| u.h.f. | 0,3/1,5 to 1/6 | 400 | + 50 ± 100<br>−300 ± 300 | 801 961 | C | 370 |
| v.h.f.; industrial equipment | 0,5/3 to 1,7/18 | 500 | − 10 ± 60<br>−250 ± 250 | 802 200 | C | 371 |
| u.h.f.; tv aerial amplifiers, etc. | 0,5/3 to 1/12 | 400/500 | − 10 ± 60<br>−200 ± 150 | 802 960 | C | 372 – 373 |
| **Film dielectric trimmers** | | | | | | |
| radio | 1,4/5,5 to 12/120 | 250 | 0 ± 300<br>−750 ± 300 | 808 | D | 374 – 375 |
| for miniature h.f. equipment in measurement and telecommunication, etc. | 1/3,5 to 5/60 | 300 | −250 ± 150<br>−350 ± 75 | 809 50<br>809 80<br>809 90 | D | 376 – 377 |
| | 1,5/5 to 7/100 | 200/350 | 0 ± 200 | 809 70 | D | 378 |