

**CORE SETS**

**Effective core parameters**

| SYMBOL        | PARAMETER        | VALUE | UNIT             |
|---------------|------------------|-------|------------------|
| $\Sigma(l/A)$ | core factor (C1) | 0.400 | mm <sup>-1</sup> |
| $V_e$         | effective volume | 3530  | mm <sup>3</sup>  |
| $l_e$         | effective length | 37.6  | mm               |
| $A_e$         | effective area   | 93.9  | mm <sup>2</sup>  |
| $A_{min}$     | minimum area     | 77.4  | mm <sup>2</sup>  |
| m             | mass of set      | ≈20   | g                |

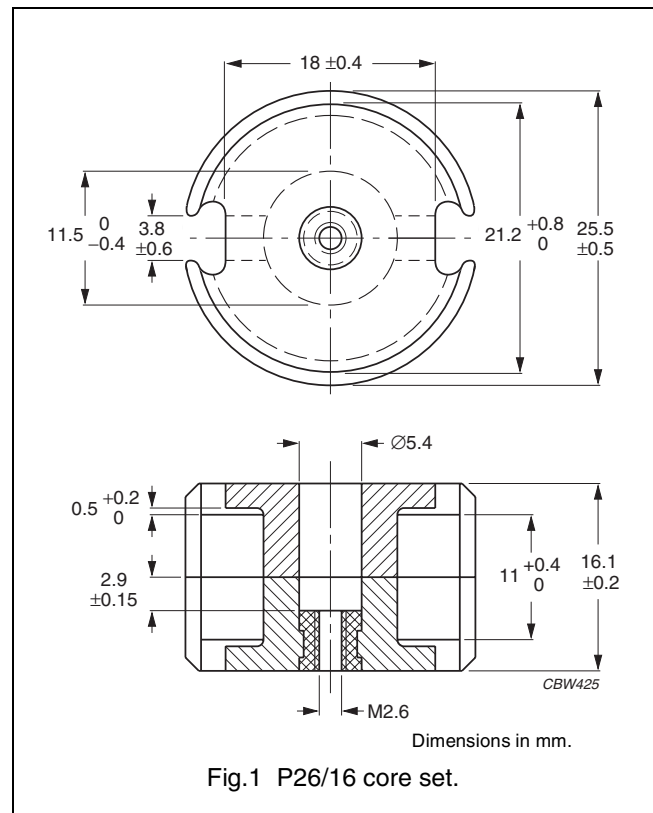


Fig.1 P26/16 core set.

**Core sets for filter applications**

Clamping force for  $A_L$  measurements, 200 ±50 N.

| GRADE              | $A_L$ (nH) | $\mu_e$ | TOTAL AIR GAP (μm) | TYPE NUMBER (WITH NUT) | TYPE NUMBER (WITHOUT NUT) |
|--------------------|------------|---------|--------------------|------------------------|---------------------------|
| 3D3 <sup>sup</sup> | 100 ±3%    | ≈ 32    | ≈ 1630             | P26/16-3D3-E100/N      | P26/16-3D3-E100           |
|                    | 160 ±3%    | ≈ 51    | ≈ 890              | P26/16-3D3-E160/N      | P26/16-3D3-E160           |
|                    | 250 ±3%    | ≈ 80    | ≈ 510              | P26/16-3D3-E250/N      | P26/16-3D3-E250           |
|                    | 2 150 ±25% | ≈ 685   | ≈ 0                | –                      | P26/16-3D3                |
| 3H3 <sup>sup</sup> | 160 ±3%    | ≈ 51    | ≈ 940              | P26/16-3H3-E160/N      | P26/16-3H3-E160           |
|                    | 250 ±3%    | ≈ 80    | ≈ 550              | P26/16-3H3-E250/N      | P26/16-3H3-E250           |
|                    | 315 ±3%    | ≈ 100   | ≈ 420              | P26/16-3H3-E315/N      | P26/16-3H3-E315           |
|                    | 400 ±3%    | ≈ 127   | ≈ 310              | P26/16-3H3-E400/N      | P26/16-3H3-E400           |
|                    | 630 ±3%    | ≈ 201   | ≈ 180              | P26/16-3H3-A630/N      | P26/16-3H3-A630           |
|                    | 5 000 ±25% | ≈ 1590  | ≈ 0                | –                      | P26/16-3H3                |

**Core sets for general purpose transformers and power applications**Clamping force for  $A_L$  measurements,  $200 \pm 50$  N.

| GRADE                   | $A_L$<br>(nH)   | $\mu_e$        | AIR GAP<br>( $\mu\text{m}$ ) | TYPE NUMBER      |
|-------------------------|-----------------|----------------|------------------------------|------------------|
| 3C81                    | $160 \pm 3\%$   | $\approx 51$   | $\approx 950$                | P26/16-3C81-E160 |
|                         | $250 \pm 3\%$   | $\approx 80$   | $\approx 560$                | P26/16-3C81-A250 |
|                         | $315 \pm 3\%$   | $\approx 100$  | $\approx 420$                | P26/16-3C81-A315 |
|                         | $400 \pm 3\%$   | $\approx 127$  | $\approx 320$                | P26/16-3C81-A400 |
|                         | $630 \pm 3\%$   | $\approx 200$  | $\approx 190$                | P26/16-3C81-A630 |
|                         | $6700 \pm 25\%$ | $\approx 2130$ | $\approx 0$                  | P26/16-3C81      |
| 3C91 <small>des</small> | $6700 \pm 25\%$ | $\approx 2130$ | $\approx 0$                  | P26/16-3C91      |
| 3F3                     | $160 \pm 3\%$   | $\approx 51$   | $\approx 950$                | P26/16-3F3-E160  |
|                         | $250 \pm 3\%$   | $\approx 80$   | $\approx 560$                | P26/16-3F3-A250  |
|                         | $315 \pm 3\%$   | $\approx 100$  | $\approx 420$                | P26/16-3F3-A315  |
|                         | $400 \pm 3\%$   | $\approx 127$  | $\approx 320$                | P26/16-3F3-A400  |
|                         | $630 \pm 3\%$   | $\approx 200$  | $\approx 190$                | P26/16-3F3-A630  |
|                         | $4600 \pm 25\%$ | $\approx 1470$ | $\approx 0$                  | P26/16-3F3       |

**Core sets of high permeability grades**Clamping force for  $A_L$  measurements,  $200 \pm 50$  N.

| GRADE | $A_L$<br>(nH)    | $\mu_e$        | AIR GAP<br>( $\mu\text{m}$ ) | TYPE NUMBER |
|-------|------------------|----------------|------------------------------|-------------|
| 3E27  | $12000 \pm 25\%$ | $\approx 3820$ | $\approx 0$                  | P26/16-3E27 |

**Properties of core sets under power conditions**

| GRADE | B (mT) at                                 | CORE LOSS (W) at                         |   |   |  |
|-------|---|--|---|---|--|
|       | H = 250 A/m;<br>f = 25 kHz;<br>T = 100 °C | f = 25 kHz;<br>B = 200 mT;<br>T = 100 °C | f = 100 kHz;<br>B = 100 mT;<br>T = 100 °C | f = 100 kHz;<br>B = 200 mT;<br>T = 100 °C | f = 400 kHz;<br>B = 50 mT;<br>T = 100 °C |
| 3C81  | $\geq 320$                                | $\leq 0.82$                              | –   | –   | –  |
| 3C91  | $\geq 315$                                | –  | $\leq 0.21^{(1)}$                         | $\leq 1.6^{(1)}$                          | –  |
| 3F3   | $\geq 315$                                | –  | $\leq 0.4$                                | –   | $\leq 0.65$                              |

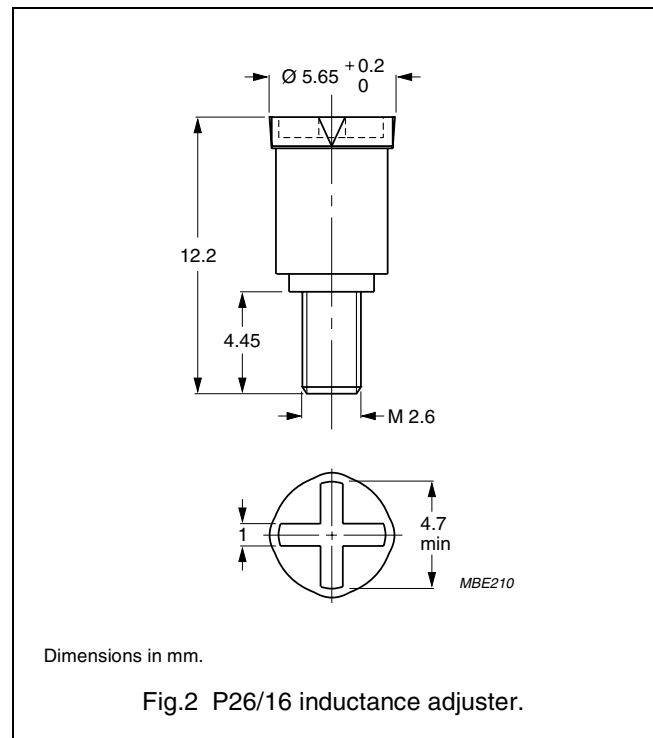
**Note**

1. Measured at 60 °C.

**INDUCTANCE ADJUSTERS**

**General data**

| PARAMETER                     | SPECIFICATION                              |
|-------------------------------|--|
| Material of head and thread   | polypropylene (PP), glass fibre reinforced |
| Maximum operating temperature | 125 °C                                     |



**Inductance adjuster selection chart <sup>sup</sup> (applies to all types)**

| GRADE | A <sub>L</sub> (nH) | TYPES FOR LOW ADJUSTMENT | ΔL/L <sup>(1)</sup> | TYPES FOR MEDIUM ADJUSTMENT | ΔL/L <sup>(1)</sup> | TYPES FOR HIGH ADJUSTMENT | ΔL/L <sup>(1)</sup> |
|-------|---------------------|--------------------------|---------------------|-----------------------------|---------------------|---------------------------|---------------------|
| 3H3   | 63                  | –                        | –                   | –                           | –                   | ADJ-P26-RED               | 25                  |
|       | 100                 | –                        | –                   | –                           | –                   | ADJ-P26-RED               | 22                  |
|       | 160                 | –                        | –                   | ADJ-P26-RED                 | 15                  | –                         | –                   |
|       | 250                 | ADJ-P26-RED              | 10                  | –                           | –                   | ADJ-P26-BROWN             | 23                  |
|       | 315                 | ADJ-P26-RED              | 8                   | –                           | –                   | ADJ-P26-BROWN             | 18                  |
|       | 400                 | ADJ-P26-RED              | 6                   | ADJ-P26-BROWN               | 13                  | ADJ-P26-GREY              | 25                  |
|       | 630                 | ADJ-P26-BROWN            | 8                   | ADJ-P26-GREY                | 16                  | –                         | –                   |
|       | 1000                | ADJ-P26-BROWN            | 5                   | ADJ-P26-GREY                | 9                   | –                         | –                   |
|       | 1600                | –                        | –                   | ADJ-P26-GREY                | 5                   | –                         | –                   |
| 3D3   | 100                 | –                        | –                   | –                           | –                   | ADJ-P26-RED               | 21                  |
|       | 160                 | –                        | –                   | ADJ-P26-RED                 | 14                  | –                         | –                   |
|       | 250                 | ADJ-P26-RED              | 9                   | –                           | –                   | ADJ-P26-GREY              | 35                  |
|       | 400                 | –                        | 8                   | ADJ-P26-GREY                | 17                  | –                         | –                   |

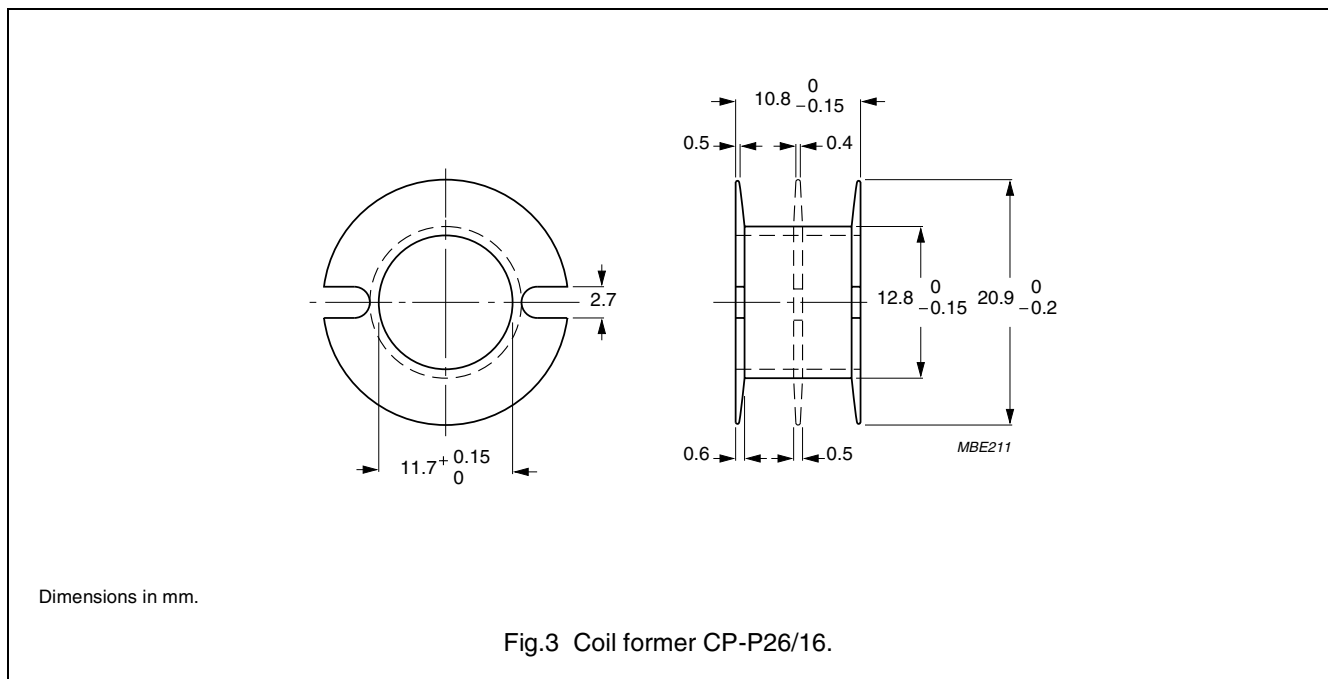
**Note**

1. Maximum adjustment range.

**COIL FORMERS**

**General data for CP-P26/16 coil former**

| PARAMETER                     | SPECIFICATION   |
|-------------------------------|---|
| Coil former material          | polybutyleneterephthalate (PBT), glass reinforced, flame retardant in accordance with "UL 94V-0"; UL file number E45329 (R) |
| Maximum operating temperature | 155 °C, "IEC 60085", class F  |

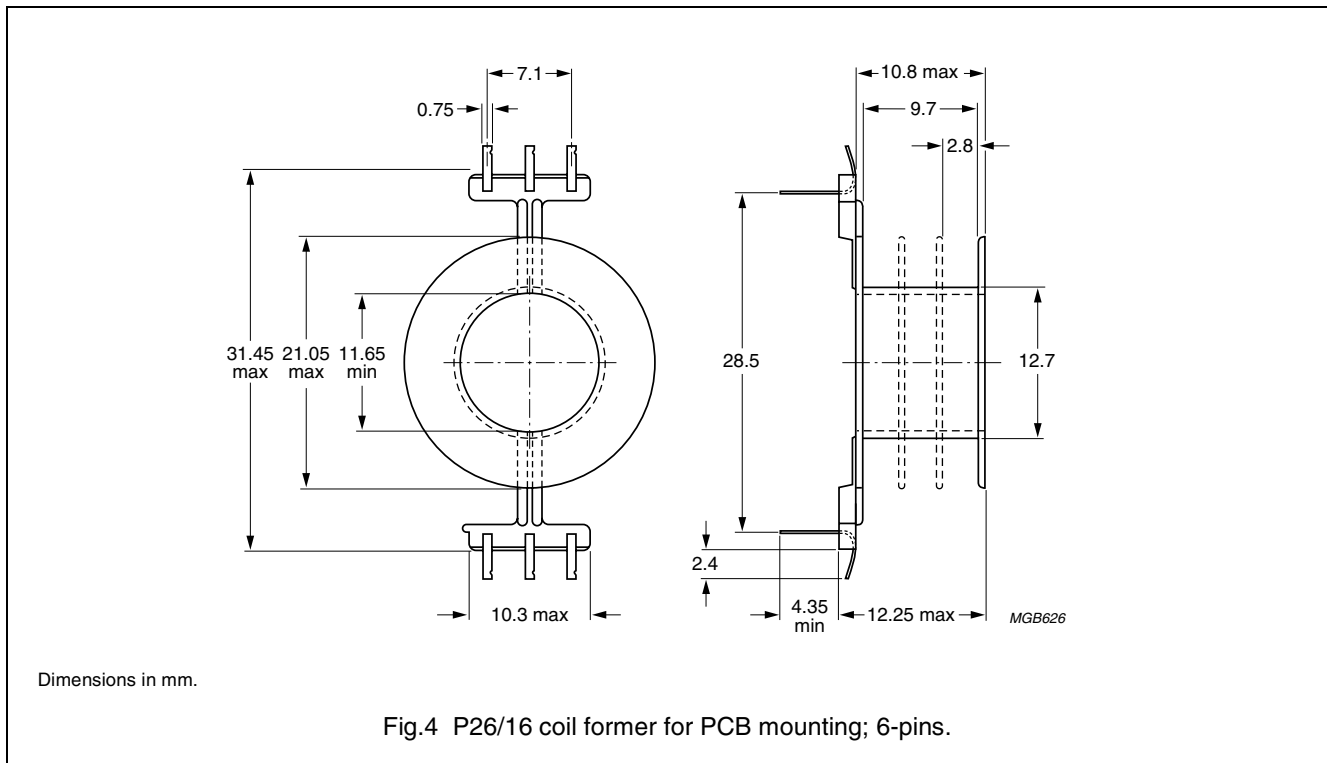


**Winding data and area product for CP-P26/16 coil former**

| NUMBER OF SECTIONS | WINDING AREA (mm <sup>2</sup> ) | MINIMUM WINDING WIDTH (mm) | AVERAGE LENGTH OF TURN (mm) | AREA PRODUCT Ae x Aw (mm <sup>4</sup> ) | TYPE NUMBER  |
|--------------------|---------------------------------|----------------------------|-----------------------------|---|--------------|
| 1                  | 37.1                            | 9.3                        | 52.6                        | 3480                                    | CP-P26/16-1S |
| 2                  | 2 × 17.5                        | 2 × 4.35                   | 52.6                        | 2 x 1640                                | CP-P26/16-2S |
| 3                  | 3 × 11                          | 3 × 2.7                    | 52.6                        | 3 x 1030                                | CP-P26/16-3S |

**General data 6-pins P26/16 coil former for PCB mounting**

| PARAMETER                     | SPECIFICATION  |
|-------------------------------|--|
| Coil former material          | polyamide (PA6.6), glass reinforced, flame retardant in accordance with "UL 94V-0"; UL file number E41938(M) |
| Maximum operating temperature | 130 °C, "IEC 60085", class B   |
| Pin material                  | copper-zinc alloy (CuZn), tin (Sn) plated  |
| Resistance to soldering heat  | "IEC 60068-2-20", Part 2, Test Tb, method 1B, 350 °C, 3.5 s  |
| Solderability                 | "IEC 60068-2-20", Part 2, Test Ta, method 1, 235 °C, 2 s   |



**Winding data and area product for 6-pins P26/16 coil former for PCB mounting**

| NUMBER OF SECTIONS | MINIMUM WINDING AREA (mm <sup>2</sup> ) | NOMINAL WINDING WIDTH (mm) | AVERAGE LENGTH OF TURN (mm) | MINIMUM LENGTH OF PINS (mm) | AREA PRODUCT Ae x Aw (mm <sup>4</sup> ) | TYPE NUMBER                       |
|--------------------|---|----------------------------|-----------------------------|-----------------------------|---|-----------------------------------|
| 1                  | 36.7                                    | 9.7                        | 52.7                        | 4.4                         | 3450                                    | CPV-P26/16-1S-6PD                 |
| 1                  | 36.7                                    | 9.7                        | 52.7                        | 6.8                         | 3450                                    | CPV-P26/16-1S-6PDL                |
| 2                  | 2 × 16.6                                | 2 × 4.5                    | 52.7                        | 4.4                         | 2 x 1560                                | CPV-P26/16-2S-6PD                 |
| 2                  | 2 × 16.6                                | 2 × 4.5                    | 52.7                        | 6.8                         | 2 x 1560                                | CPV-P26/16-2S-6PDL                |
| 3                  | 3 × 10.3                                | 3 × 2.8                    | 52.7                        | 4.4                         | 3 x 967                                 | CPV-P26/16-3S-6PD <sup>(1)</sup>  |
| 3                  | 3 × 10.3                                | 3 × 2.8                    | 52.7                        | 6.8                         | 3 x 967                                 | CPV-P26/16-3S-6PDL <sup>(1)</sup> |

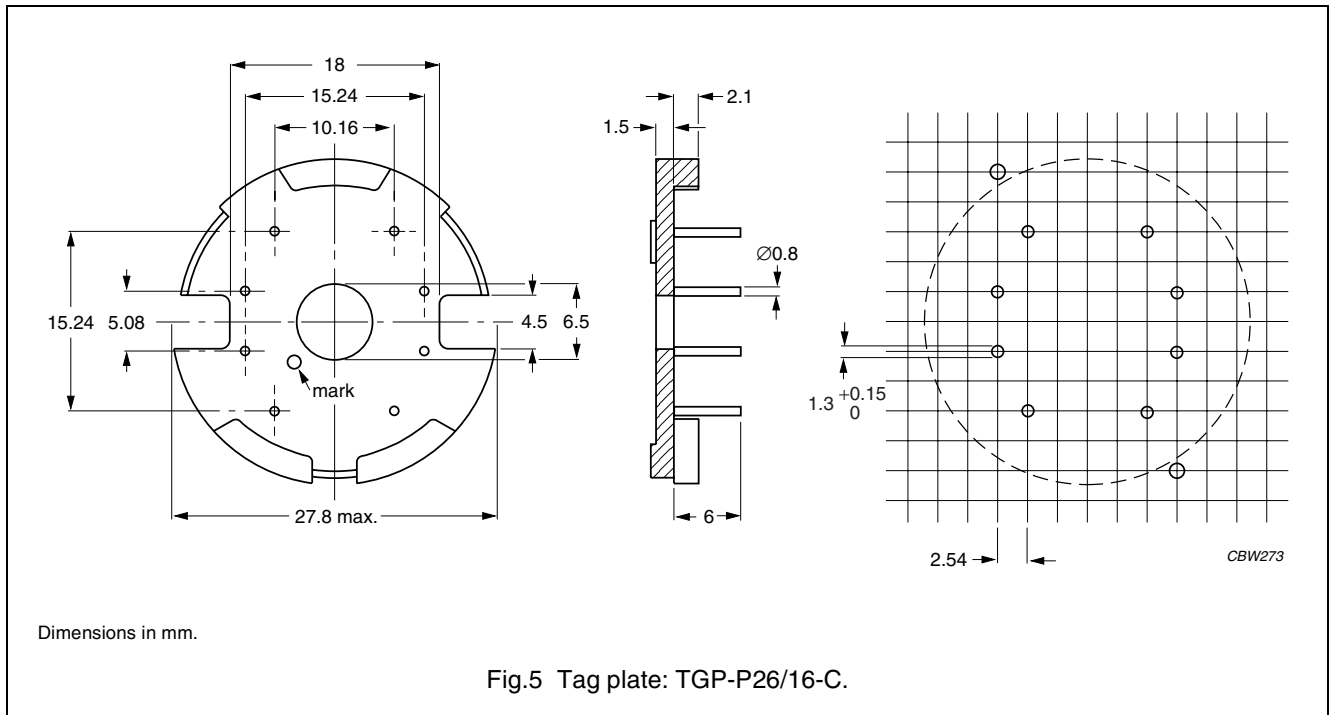
**Note**

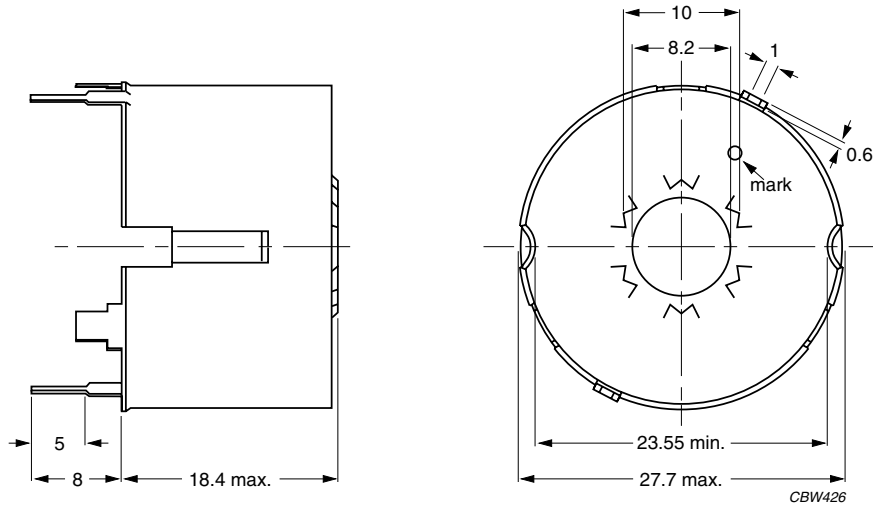
1. In accordance with "UL 94-HB".

**MOUNTING PARTS**

**General data**

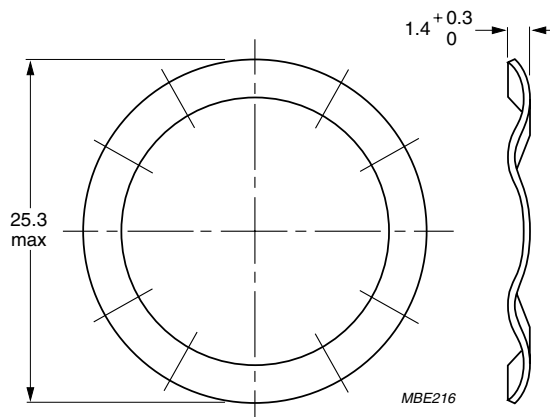
| ITEM      | REMARKS  | FIGURE | TYPE NUMBER   |
|-----------|--|--------|---------------|
| Tag plate | material: phenolformaldehyde (PF), glass reinforced  | 5      | TGP-P26/16-C  |
|           | flame retardant: in accordance with "UL 94V-0";<br>UL file number E41429                                       |        |               |
|           | maximum operating temperature: 180 °C, "IEC 60085", class H  |        |               |
|           | pins: copper-tin alloy (CuSn), tin (Sn) plated   |        |               |
|           | resistance to soldering heat in accordance with<br>"IEC 60068-2-20", Part 2, Test Tb, method 1B: 350 °C, 3.5 s |        |               |
|           | solderability in accordance with "IEC 60068-2-20", Part 2,<br>Test Ta, method 1: 235 °C, 2 s                   |        |               |
| Container | copper-zinc alloy, tin (Sn) plated   | 6      | CON-P26/16    |
|           | earth pins: presoldered  |        |               |
| Spring    | CrNi-steel   | 7      | SPR-P26/16    |
|           | spring force: ≈200 N when mounted  |        |               |
| Clamp     | spring steel, tin-plated   | 8      | CLM/TP-P26/16 |





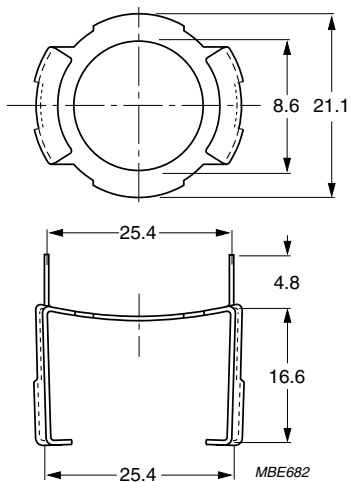
Dimensions in mm.

Fig.6 P26/16 container.



Dimensions in mm.

Fig.7 P26/16 spring.



Dimensions in mm.

Fig.8 Clamp: CLM/TP-P26/16.



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