

- SIG: Snap in, 2 pins
- SI4PG: Snap in, 4 pins
- GSG: PCB solder pins

SIG

SI4PG

GSG

RoHS compliant  
REACH compliant

**Features**

- polarized aluminium electrolytic capacitors, non-solid electrolyte
- pressure relief in the sealing
- all internal contacts welded

**Applications**

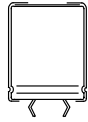
- standard and switched mode power supplies
- Computer and telecommunications
- Industrial electronic

**Different case sizes, voltages and capacitance combinations are available on request. Also in small lots.**

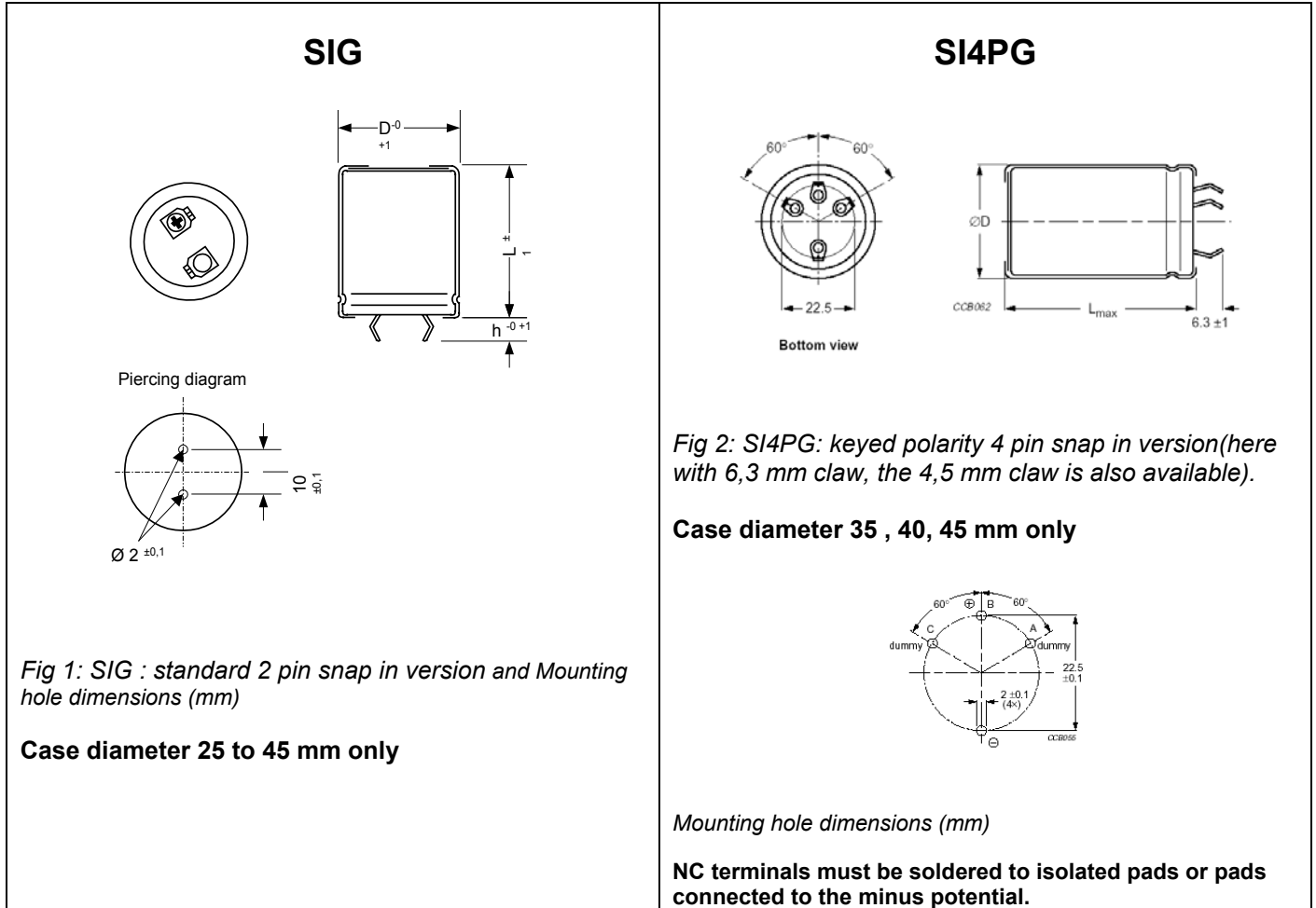
- Renewable energy
- Control engineering

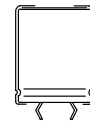
**General specifications**

| Items                                     |                                    | Characteristics  |
|---|------------------------------------|--|
| Rated capacitance range $C_R$             |                                    | 1.200 ... 130.000 $\mu\text{F}$  |
| Capacitance tolerance                     |                                    | $\pm 20\%$   |
| Rated voltage range $U_R$                 |                                    | 16 ... 63 V  |
| Surge voltage $U_S$                       |                                    | $U_S = 1,15 U_R$   |
| Max. reverse voltage                      |                                    | 2 V  |
| Category temperature range                |                                    | - 55°C ... + 125°C   |
| Leakage current $I_L$ after 5 min @ $U_R$ |                                    | $\leq 0,006 * C_R [\mu\text{F}] * U_R [\text{V}] + 6 \mu\text{A} [\mu\text{A}]$                              |
| Useful life                               | 2000 h @ 125 °C ; $U_R$ ; $I_{R-}$ | $\Delta C/C \leq 30\%$ of initial value<br>ESR $\leq 300\%$ of specified limit<br>$I_L \leq$ specified limit |
| Endurance test                            | 1000 h @ 125 °C , $U_R$            | $\Delta C/C \leq 20\%$ of initial value<br>ESR $\leq 130\%$ of specified limit<br>$I_L \leq$ specified limit |
| Climatic category IEC 60068               |                                    | 55/125/56  |
| Voltage proof of the external insulation  |                                    | $\geq 2500$ V AC   |
| Sectional specification                   |                                    | IEC 60384-4  |

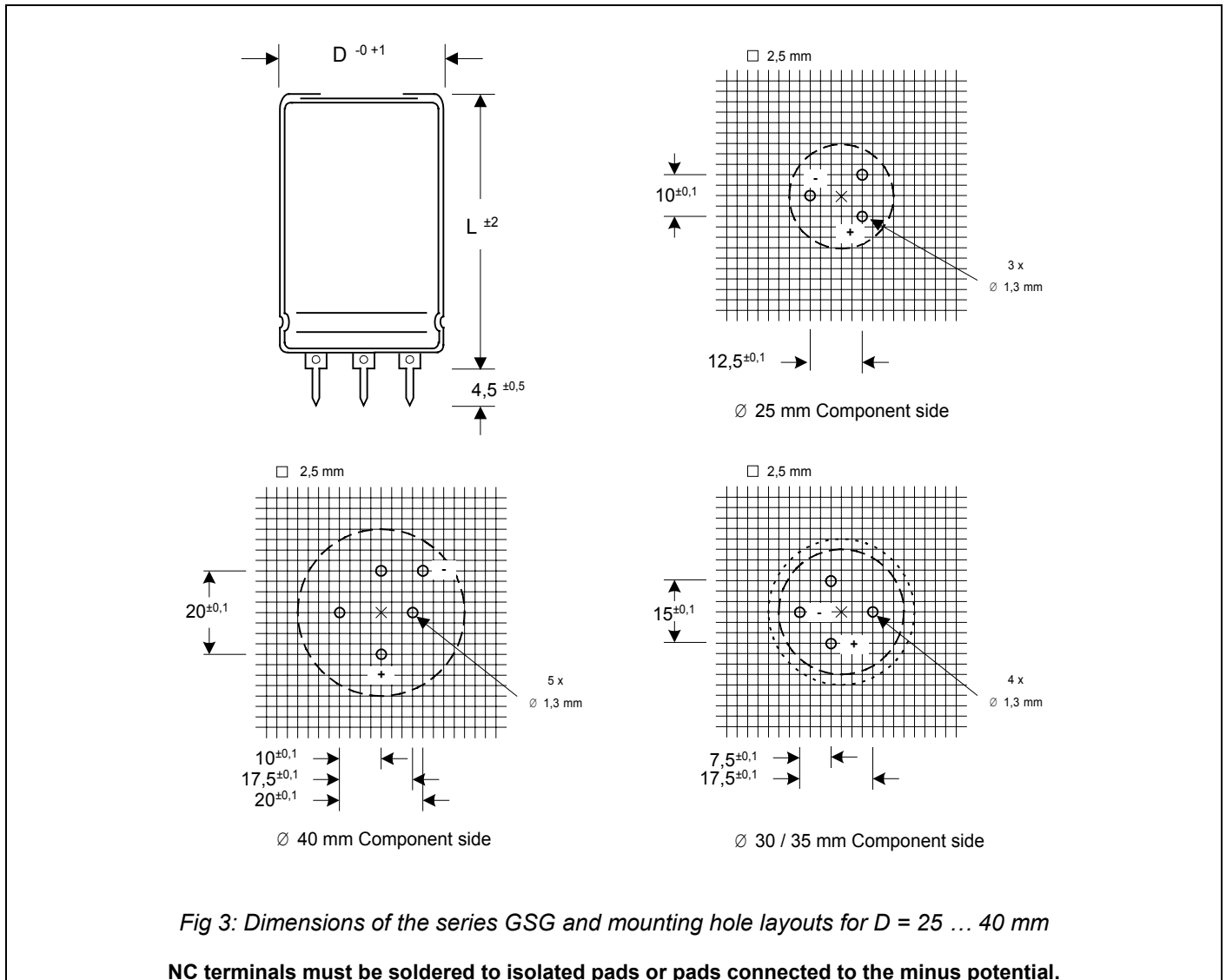


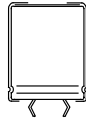
Dimensions drawings for series SIG and SIG4P





Dimension drawings and mounting hole layout for capacitors of the series GSG





Electrical data and ordering codes series SIG

| Rated Voltage        | Rated Capacitance   | Case size  | Typ. ESR          | Ripple Current IR~ | Order code         |
|----------------------|---------------------|------------|-------------------|--------------------|--------------------|
| U <sub>R</sub> / [V] | C <sub>R</sub> [μF] | D x L [mm] | 100 Hz, 20°C [mΩ] | 100 Hz, 125 °C [A] | SIG, SI4PG, GSG... |
| 16                   | 10000               | 25x30      | 40                | 2,7                | 10301625030        |
|                      | 15000               | 30x30      | 27                | 3,6                | 15301630030        |
|                      | 18000               | 25x50      | 22                | 4,3                | 18301625050        |
|                      | 18000               | 35x30      | 22                | 4,3                | 18301635030        |
|                      | 27000               | 30x50      | 15                | 5,8                | 27301630050        |
|                      | 39000               | 30x70      | 10                | 7,9                | 39301630070        |
|                      | 39000               | 35x50      | 10                | 7,6                | 39301635050        |
|                      | 47000               | 40x50      | 8                 | 8,8                | 47301640050        |
|                      | 82000               | 35x80      | 5                 | 14,6               | 82316350100        |
|                      | 82000               | 40x80      | 5                 | 13,9               | 82301640080        |
|                      | 100000              | 45x80      | 4                 | 15,4               | 10401645080        |
|                      | 120000              | 40x100     | 4                 | 16,9               | 12401640100        |
| 130000               | 45x100              | 4          | 17,5              | 13401645100        |                    |
| 25                   | 6800                | 25x30      | 47                | 2,5                | 68202525030        |
|                      | 10000               | 30x30      | 32                | 3,3                | 10302530030        |
|                      | 15000               | 25x50      | 21                | 4,4                | 15302525050        |
|                      | 15000               | 35x30      | 21                | 4,4                | 15302535030        |
|                      | 18000               | 30x50      | 18                | 5,3                | 18302530050        |
|                      | 27000               | 30x70      | 12                | 7,4                | 27302530070        |
|                      | 27000               | 35x50      | 12                | 7,1                | 27302535050        |
|                      | 39000               | 40x50      | 8                 | 9,0                | 39302540050        |
|                      | 47000               | 35x80      | 7                 | 11,3               | 47302535080        |
|                      | 56000               | 45x80      | 6                 | 12,9               | 56302545080        |
|                      | 68000               | 40x80      | 5                 | 14,2               | 68302540080        |
|                      | 68000               | 40x100     | 5                 | 15,5               | 68302540100        |
| 100000               | 45x100              | 3          | 18,8              | 10402545100        |                    |
| 40                   | 1500                | 25x30      | 127               | 1,5                | 15204025030        |
|                      | 2200                | 30x30      | 87                | 2,0                | 22204030030        |
|                      | 2700                | 25x50      | 71                | 2,4                | 27204025050        |
|                      | 2700                | 35x30      | 71                | 2,5                | 27204035030        |
|                      | 3300                | 30x50      | 58                | 3,0                | 33204030050        |
|                      | 3300                | 30x70      | 58                | 3,4                | 33204030070        |
|                      | 3900                | 35x50      | 49                | 3,6                | 39204035050        |
|                      | 3900                | 40x50      | 49                | 3,8                | 39204040050        |
|                      | 4700                | 35x80      | 41                | 4,7                | 47204035080        |
|                      | 5600                | 45x80      | 34                | 6,0                | 56204045080        |
|                      | 5600                | 40x80      | 34                | 5,4                | 56204040080        |
|                      | 5600                | 40x100     | 34                | 5,9                | 56204040100        |
| 6800                 | 45x100              | 28         | 7,0               | 68204045100        |                    |
| 63                   | 1200                | 25x30      | 119               | 1,5                | 12206325030        |
|                      | 1800                | 30x30      | 80                | 2,1                | 18206330030        |
|                      | 2700                | 25x50      | 53                | 2,8                | 27206325050        |
|                      | 2700                | 35x30      | 53                | 2,9                | 27206335030        |
|                      | 3900                | 30x50      | 37                | 3,8                | 39206330050        |
|                      | 4700                | 35x50      | 30                | 4,5                | 47206335050        |
|                      | 5600                | 30x70      | 26                | 5,2                | 56206330070        |
|                      | 6800                | 40x50      | 21                | 5,8                | 68206340050        |
|                      | 8200                | 35x80      | 17                | 7,2                | 82206335080        |
|                      | 15000               | 45x80      | 10                | 11,4               | 15306345080        |
|                      | 18000               | 40x80      | 8                 | 11,2               | 18306340080        |
|                      | 22000               | 40x100     | 7                 | 13,6               | 22306340100        |
| 27000                | 45x100              | 5          | 16,2              | 27306345100        |                    |