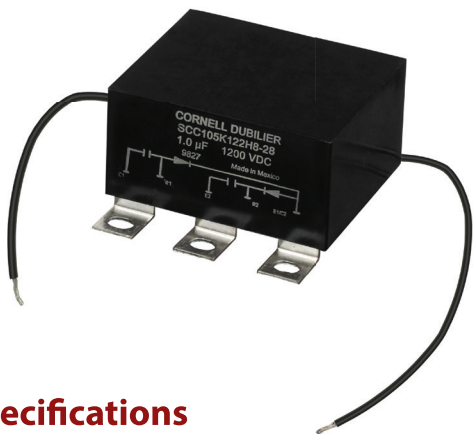


# Type SCC, Dual IGBT Clamp-Snubber Modules

## High Peak Current Snubber with Integrated Hyperfast Diodes



Style SCC is ideal for use in medium to high current applications where a dual IGBT module is used. This low loss snubber directly reduces turn-off voltage overshoots and is effective in reducing turn-on voltage transients.

### Highlights

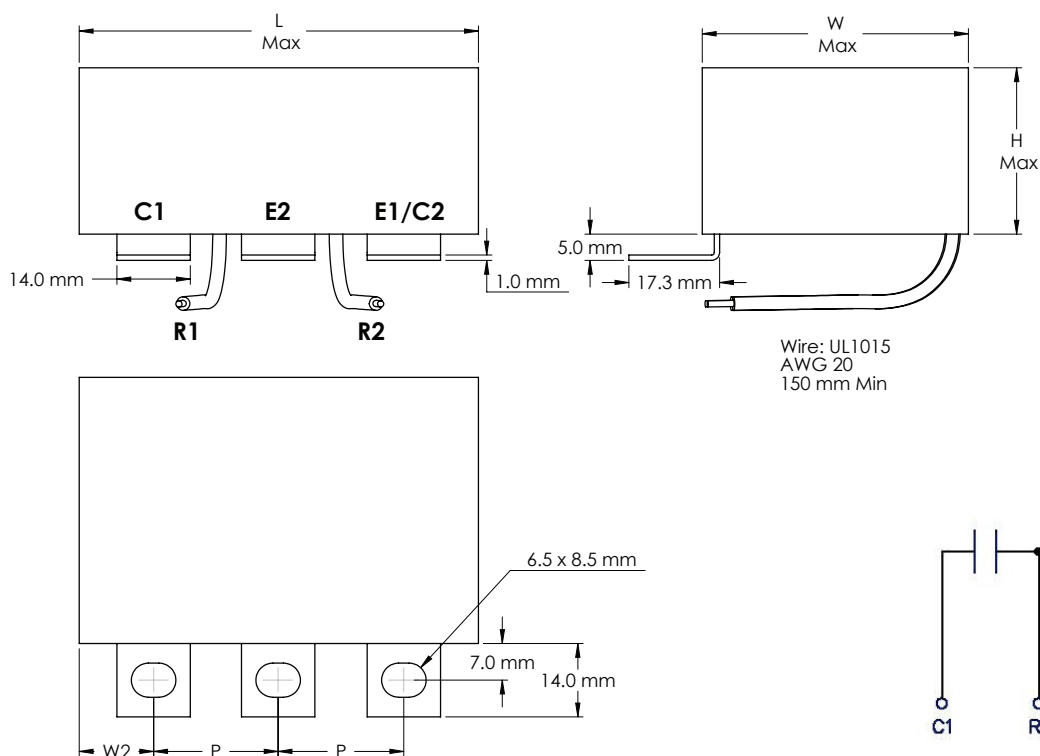
- Mount directly to the IGBT module
- Low inductance
- Low loss polypropylene dielectric
- High peak current
- Hyperfast diodes integrated into package
- Wire taps for connecting external resistors
- Flame resistant case and epoxy meet UL 94V-0

### Specifications

|                             |                                                 |
|-----------------------------|-------------------------------------------------|
| Capacitance Range           | 0.47 to 2.0 $\mu$ F                             |
| Capacitance Tolerance       | $\pm 10\%$ (K) standard, $\pm 5\%$ (J) optional |
| Rated Voltage               | 600 to 1200 Vdc                                 |
| Operating Temperature Range | -55 $^{\circ}$ C to 70 $^{\circ}$ C             |
| RoHS Compliant              |                                                 |

### Dimensions

| Construction Details |                   |
|----------------------|-------------------|
| Case Material        | Plastic UL94V-0   |
| Resin Material       | Dry Resin UL94V-0 |
| Terminal Material    | Tin Plated Copper |



# Type SCC, Dual IGBT Clamp-Snubber Modules

## High Peak Current Snubber with Integrated Hyperfast Diodes

### Part Numbering System

| SCC                     | 105                        | K                   | 122                             | H1           | 24                       | -F                       |
|-------------------------|----------------------------|---------------------|---------------------------------|--------------|--------------------------|--------------------------|
| Series Type Designation | Capacitance in pF          | Tolerance Code      | Voltage                         | Diode Rating | Lug Spacing              | RoHS Compliant Indicator |
|                         | 104 = 0.1 μF<br>105 = 1 μF | J = ±5%<br>K = ±10% | 601 = 600 Vdc<br>122 = 1200 Vdc | See Tables   | 24 = 24 mm<br>28 = 28 mm |                          |

### Ratings

**Note:** Other ratings, sizes and performance specification available upon request. Contact us.

| Catalog<br>Part Number | Ipk(A)              |             |                              |              |                |       |       |       |       |      |
|------------------------|---------------------|-------------|------------------------------|--------------|----------------|-------|-------|-------|-------|------|
|                        | Typical Application |             | Diode                        |              | Tc = 25 °C     |       |       |       |       |      |
|                        | Cap                 | DUAL IGBT   | Characteristics              | Ipk(A) Surge | Repetitive     | W     | L     | H     | W2    | P    |
|                        | (μF)                | Ic/Vce      | Vrrm/I <sub>f</sub> /trr(μs) | Tc = 25 °C   | 20 kHz Sq Wave | (mm)  | (mm)  | (mm)  | (mm)  | (mm) |
| SCC105K601H7-24-F      | 1.00                | 100/600     | 600/30/.040                  | 300          | 70             | 50.80 | 76.20 | 31.75 | 14.22 | 24   |
| SCC155K601H7-24-F      | 1.50                | 200-300/600 | 600/30/.040                  | 300          | 70             | 50.80 | 76.20 | 31.75 | 14.22 | 24   |
| SCC205K601H5-24-F      | 2.00                | 400/600     | 600/50/.045                  | 500          | 100            | 50.80 | 76.20 | 31.75 | 14.22 | 24   |
| SCC205K601H5-28-F      | 2.00                | 400/600     | 600/50/.045                  | 500          | 100            | 50.80 | 76.20 | 31.75 | 10.16 | 28   |
| SCC474K122H8-24-F      | 0.47                | 100/1200    | 1200/30/.065                 | 300          | 60             | 50.80 | 76.20 | 31.75 | 14.22 | 24   |
| SCC474K122H8-28-F      | 0.47                | 100/1200    | 1200/30/.065                 | 300          | 60             | 50.80 | 76.20 | 31.75 | 10.16 | 28   |
| SCC105K122H8-24-F      | 1.00                | 150/1200    | 1200/30/.065                 | 300          | 60             | 62.90 | 76.20 | 38.10 | 14.22 | 24   |
| SCC105K122H8-28-F      | 1.00                | 150/1200    | 1200/30/.065                 | 300          | 60             | 62.90 | 76.20 | 38.10 | 10.16 | 28   |
| SCC155K122H4-24-F      | 1.50                | 200/1200    | 1200/50/.085                 | 500          | 100            | 63.50 | 88.90 | 40.00 | 20.60 | 24   |
| SCC155K122H4-28-F      | 1.50                | 200/1200    | 1200/50/.085                 | 500          | 100            | 63.50 | 88.90 | 40.00 | 16.50 | 28   |
| SCC205K122H4-24-F      | 2.00                | 300/1200    | 1200/50/.085                 | 500          | 100            | 71.12 | 92.08 | 43.18 | 20.60 | 24   |
| SCC205K122H4-28-F      | 2.00                | 300/1200    | 1200/50/.085                 | 500          | 100            | 71.12 | 92.08 | 43.18 | 18.03 | 28   |

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