



## Low Cost Resistor Assembly LCAH/LCAV

These economical and powerful components comprise two, three or four high power resistors housed in partial steel covers at each end. These rugged, powder coated covers ensure an excellent seal. The internal resistors use aluminum plates at each end instead of our standard cement molding. This innovation reduces construction time and reduces cost, at no reduction of performance. The major application of this exciting new model is high power inverter braking units.



### GENERAL SPECIFICATIONS

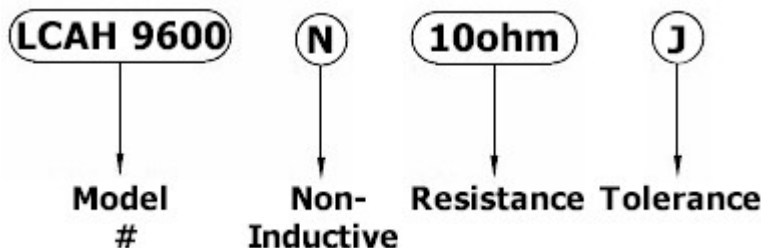
| MODEL     | Internal Resistor Type | Power Rating in free air [W] | Resistance Range[ohms] Inductive | Resistance Range[ohms] Non-Inductive | Resistance Tolerance |
|-----------|------------------------|------------------------------|----------------------------------|--------------------------------------|----------------------|
| LCAH3200  | ULV1600 X2             | 1.0k                         | 2.3 - 160                        | 0.6 - 46                             | J[+-5%]<br>K[+-10%]  |
| LCAH4000  | ULV2000 X2             | 1.2k                         | 3.0 - 220                        | 0.9 - 61                             |                      |
| LCAH4800  | ULV2400 X2             | 1.3k                         | 4.0 - 280                        | 1.0 - 74                             |                      |
| LCAH5600  | ULV2800 X2             | 1.4k                         | 4.5 - 270                        | 1.0 - 67                             |                      |
| LCAH4800  | ULV1600 X3             | 1.3k                         | 0.75 - 265                       | 0.9 - 69                             |                      |
| LCAH6000  | ULV2000 X3             | 1.4k                         | 1.0 - 330                        | 1.2 - 91                             |                      |
| LCAH7200  | ULV2400 X3             | 1.5k                         | 1.5 - 420                        | 1.5 - 111                            |                      |
| LCAH8400  | ULV2800 X3             | 1.6k                         | 1.5 - 390                        | 1.5 - 100                            |                      |
| LCAH6400  | ULV1600 X4             | 1.7k                         | 0.5 - 340                        | 1.2 - 92                             |                      |
| LCAH8000  | ULV2000 X4             | 1.9k                         | 0.75 - 440                       | 1.8 - 122                            |                      |
| LCAH9600  | ULV2400 X4             | 2.1k                         | 1.0 - 560                        | 2.0 - 148                            |                      |
| LCAH11200 | ULV2800 X4             | 2.3k                         | 1.1 - 520                        | 2.0 - 134                            |                      |
| LCAV9600  | ULV1600 X6             | 3.0k                         | 0.25 - 528                       | 0.1 - 138                            |                      |
| LCAV12000 | ULV2000 X6             | 3.6k                         | 0.33 - 678                       | 0.1 - 183                            |                      |
| LCAV14400 | ULV2400 X6             | 3.9k                         | 0.41 - 864                       | 0.1 - 222                            |                      |
| LCAV16800 | ULV2800 X6             | 4.2k                         | 0.5 - 810                        | 0.12 - 201                           |                      |

### CHARACTERISTICS

Values in [ ] mean change in ohmic value after test

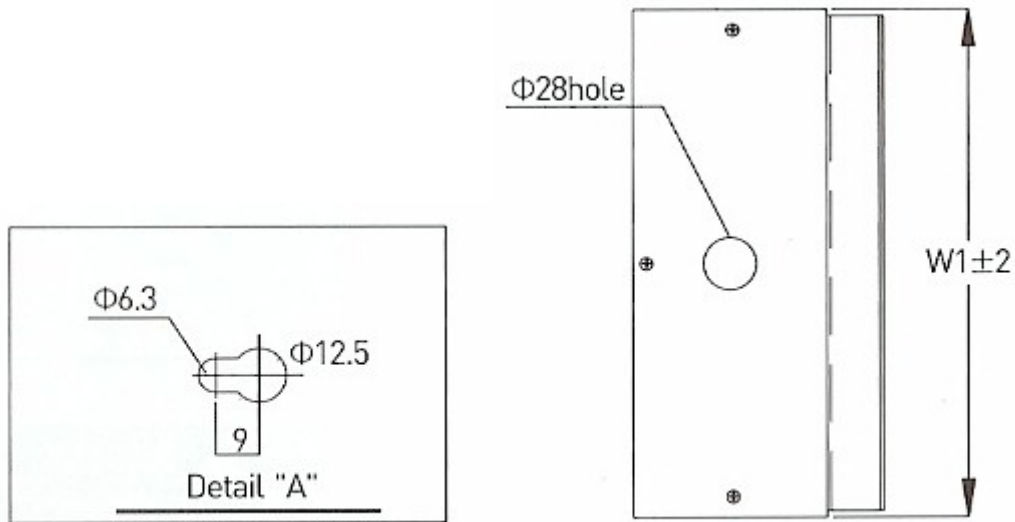
|                       |  |
|-----------------------|--|
| Temperature Range     | -55C - 275C  |
| Insulation Resistance | 20Mohms min.   |
| Dielectric Strength   | Available options: AC1500V, 3500V(Max. leakage current: 2mA)     |
| Temp. Coefficient     | + - 260ppm/C max.  |
| Short Time Overload   | + - [2%+0.05 ohms] 10 X Power rating 5 secs.                     |
| Moisture Resistance   | + - [3%+0.05 ohms] 40C, 95% RH, DC100V case to terminal, 500hrs. |
| Thermal Shock         | + - [2%+0.05 ohms] Power rating 30min., -25C 15 min.             |
| Vibration             | + - [2%+0.05 ohms] 10Hz-55Hz-10Hz (1 min), 2hrs each direction.  |
| Load life             | + - [5%+0.05 ohms] Power rating 1.5hrs on, 30min off, 500hrs.    |

### ORDERING PROCEDURE EXAMPLE

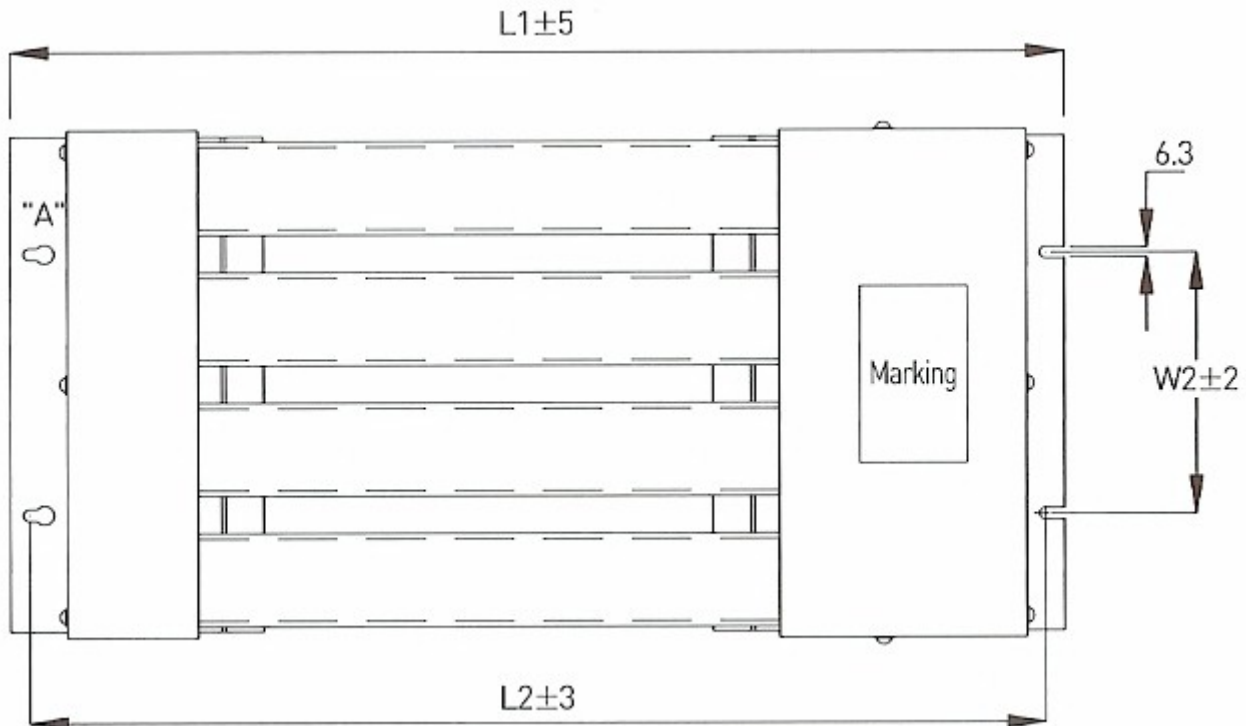


## DIMENSIONS FOR LCAH

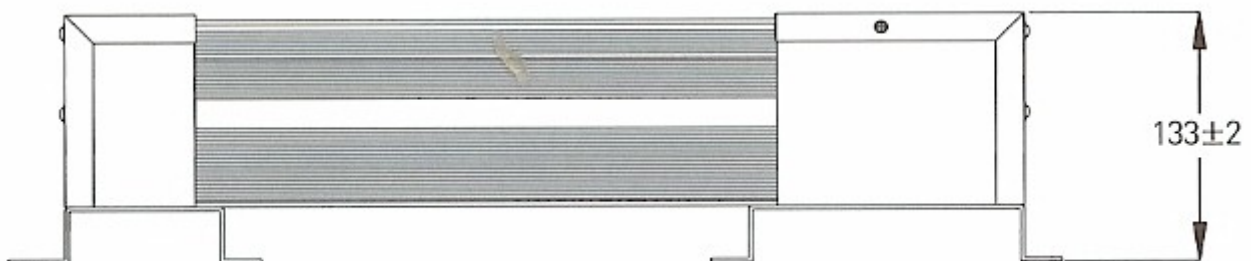
### MOUNTING BOLT HOLE DETAIL AND END VIEW



### TOP VIEW

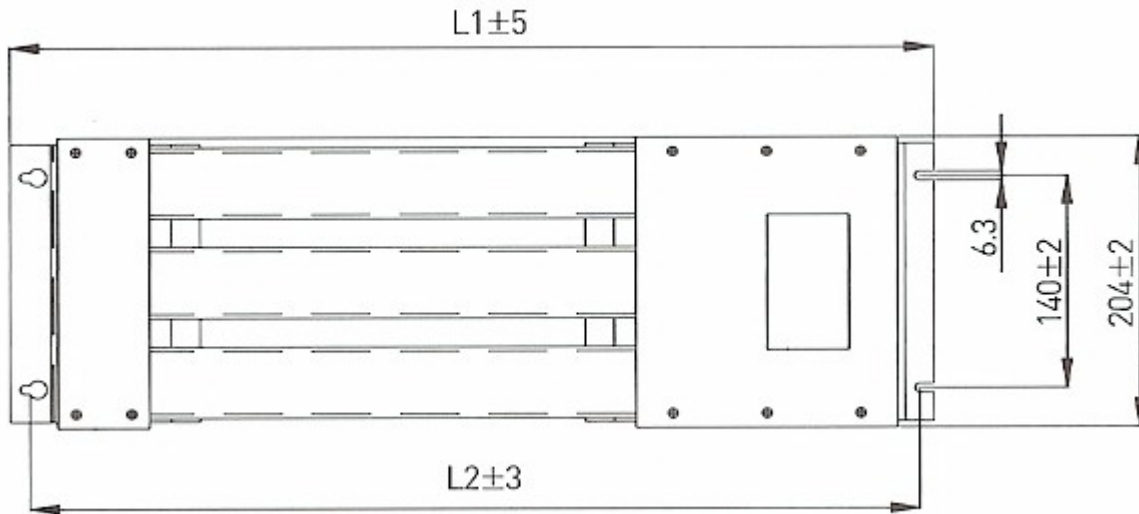


### SIDE VIEW

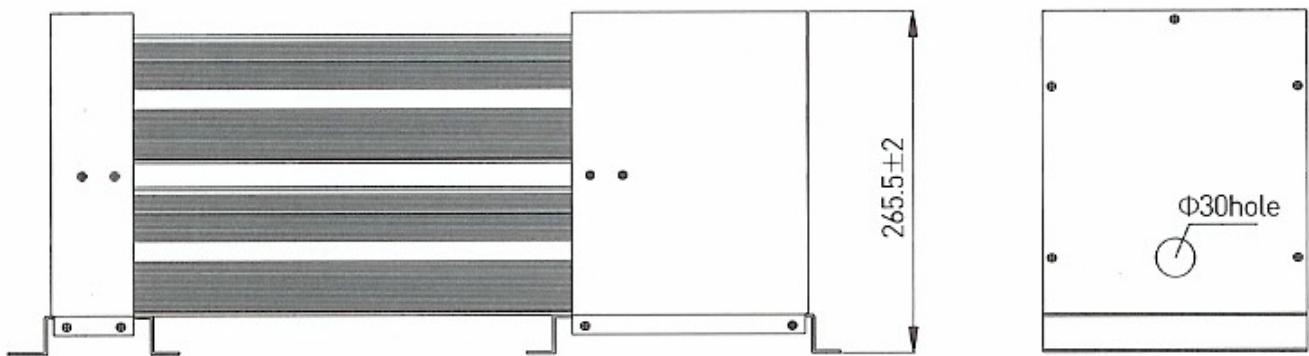


## DIMENSIONS FOR LCAV

### TOP VIEW



### SIDE AND END VIEW



| Model    | Weight [Kg] | Dimensions[mm] |       |       |       |
|----------|-------------|----------------|-------|-------|-------|
|          |             | L1+-5          | L2+-3 | W1+-2 | W2+-2 |
| LCA3200  | 6.5         | 484            | 463   | 134   | 79    |
| LCA4000  | 7.5         | 554            | 533   |       |       |
| LCA4800  | 8.5         | 634            | 613   |       |       |
| LCA5600  | 10.0        | 704            | 683   | 204   | 140   |
| LCA4800  | 9.0         | 484            | 463   |       |       |
| LCA6000  | 11.0        | 554            | 533   |       |       |
| LCA7200  | 13.0        | 634            | 613   | 274   |       |
| LCA8400  | 15.0        | 704            | 683   |       |       |
| LCA6400  | 12.0        | 484            | 463   |       |       |
| LCA8000  | 14.0        | 554            | 533   | 125   | 79    |
| LCA9600  | 16.5        | 634            | 613   |       |       |
| LCA11200 | 19.0        | 704            | 683   |       |       |
| LCA9600  | 16.5        | 539            | 519   | 79    |       |
| LCA12000 | 20.0        | 609            | 589   |       |       |
| LCA14400 | 23.5        | 689            | 669   |       |       |
| LCA16800 | 27.5        | 759            | 739   |       |       |