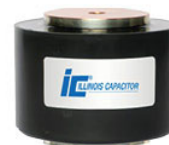




# HC5

## High Power Resonant Capacitors



### FEATURES

High AC Voltage - High current

### APPLICATIONS

Induction Heating - Tank Circuits

|                          |                                                                    |
|--------------------------|--------------------------------------------------------------------|
| KVAR                     | 500                                                                |
| CAPACITANCE TOLERANCE    | +/-10%                                                             |
| MAXIMUM CORE TEMPERATURE | +85°C                                                              |
| SURFACE TEMPERATURE      | +45°C<br>(Above 45°C the KVAR rating must be de-rated by 2.25%/°C) |
| CONSTRUCTION             | Self-healing                                                       |
| SELF INDUCTANCE          | <3 nH                                                              |
| DIELECTRIC               | Polypropylene                                                      |
| FLAME RETARDANT          | UL94V0                                                             |

### Standard part listing

| Capacitance (μF) | VAC  | IC part number | Maximum RMS current (A) | MAX power kvar | Frequency range (kHz) | ESR (mΩ) 100kHz, +25°C | Dimensions (mm) |      |    | Terminal Style |
|------------------|------|----------------|-------------------------|----------------|-----------------------|------------------------|-----------------|------|----|----------------|
|                  |      |                |                         |                |                       |                        | D               | H    | d  |                |
| 1.2              | 1100 | 125HC5112KR    | 600                     | 500            | 55-96                 | 1.5                    | 80              | 71.5 | 60 | R              |
| 1.4              | 1100 | 145HC5112KR    | 600                     | 500            | 46-83                 | 1.2                    | 80              | 71.5 | 60 | R              |
| 3.0              | 750  | 305HC5750KR    | 800                     | 500            | 47-68                 | 1.1                    | 80              | 71.5 | 60 | R              |
| 3.3              | 750  | 335HC5750KR    | 800                     | 500            | 43-62                 | 1.0                    | 80              | 71.5 | 60 | R              |
| 4.0              | 900  | 405HC5900KR    | 700                     | 500            | 25-39                 | 0.9                    | 102             | 71.5 | 60 | R              |
| 5.6              | 700  | 565HC5700KR    | 1000                    | 500            | 29-57                 | 0.9                    | 80              | 71.5 | 60 | R              |
| 6.3              | 700  | 635HC5700KR    | 1000                    | 500            | 26-51                 | 0.8                    | 80              | 71.5 | 60 | R              |
| 8.5              | 700  | 855HC5700KR    | 1000                    | 500            | 19-38                 | 0.7                    | 88              | 71.5 | 60 | R              |
| 10               | 700  | 106HC5700KR    | 1000                    | 500            | 16-32                 | 0.6                    | 95              | 71.5 | 60 | R              |
| 21               | 500  | 216HC5500KR    | 1000                    | 500            | 15                    | 0.4                    | 80              | 71.5 | 60 | R              |
| 27               | 550  | 276HC5550KR    | 1000                    | 500            | 10-12                 | 0.3                    | 102             | 71.5 | 60 | R              |
| 33               | 500  | 336HC5500KR    | 1000                    | 500            | 10                    | 0.3                    | 102             | 71.5 | 60 | R              |
| 37               | 500  | 376HC5500KR    | 1000                    | 500            | 9                     | 0.2                    | 102             | 71.5 | 60 | R              |



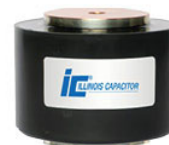
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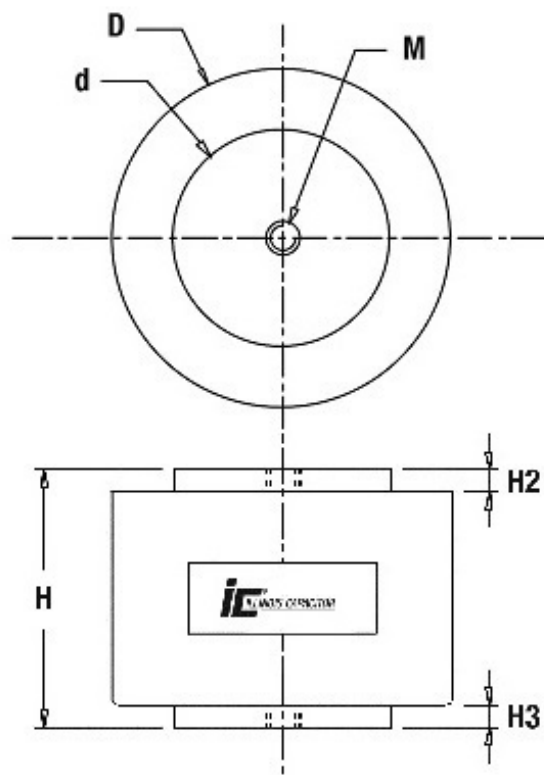


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## High Power Resonant Capacitors



Terminal Style: R



| D                                                        | H                    | d                | H2                | H3                |
|----------------------------------------------------------|----------------------|------------------|-------------------|-------------------|
| 80 <sub>+1</sub>                                         | 71.5 <sub>+0.1</sub> | 60 <sub>+1</sub> | 6 <sub>+0.5</sub> | 6 <sub>+0.5</sub> |
| 88 <sub>+1</sub>                                         |                      |                  |                   |                   |
| 95 <sub>+1</sub>                                         |                      |                  |                   |                   |
| 102 <sub>+1</sub>                                        |                      |                  |                   |                   |
| Mounting holes (M): M8x1.25, 9.5mm deep with SS helicoil |                      |                  |                   |                   |
| Terminations: Copper finish Rz6.3                        |                      |                  |                   |                   |
| Tightening torque: 15Nm Max                              |                      |                  |                   |                   |

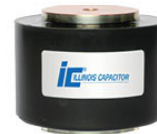


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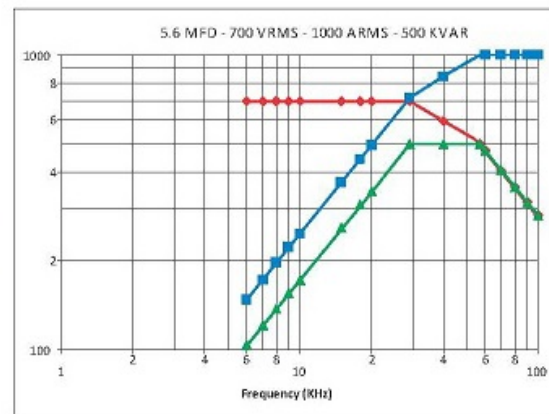
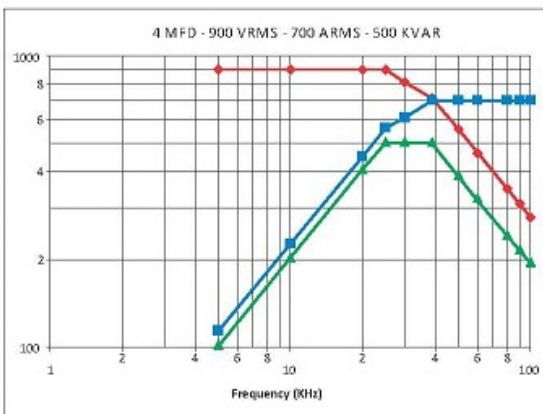
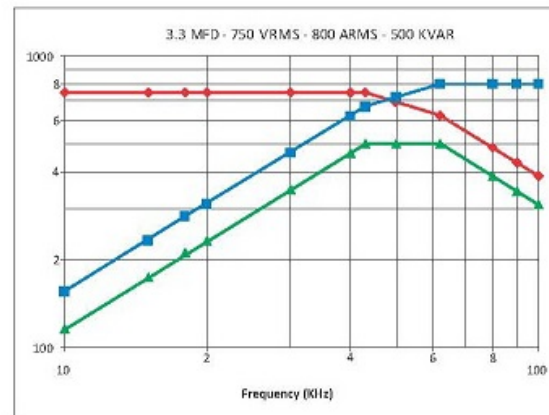
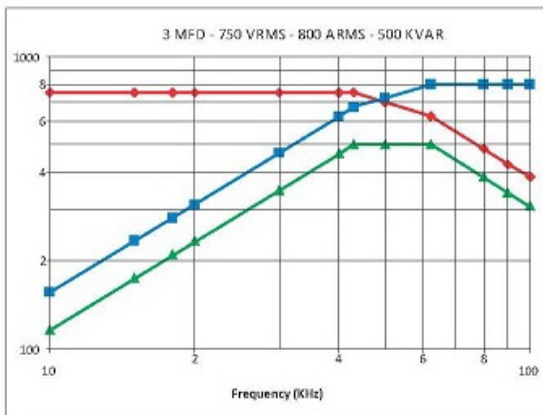
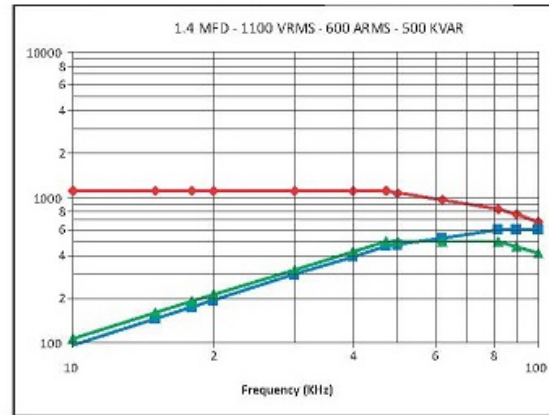
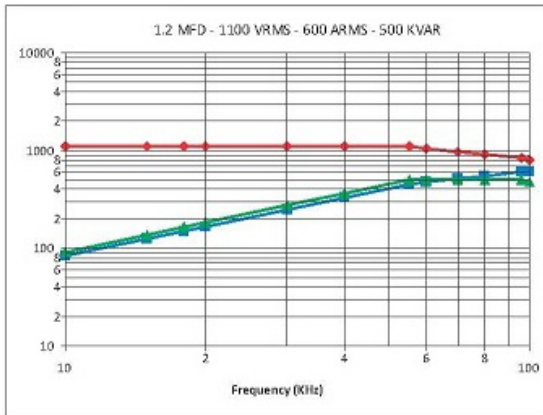
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## High Power Resonant Capacitors



### Frequency Derating

—●— Voltage —■— Current —▲— Power



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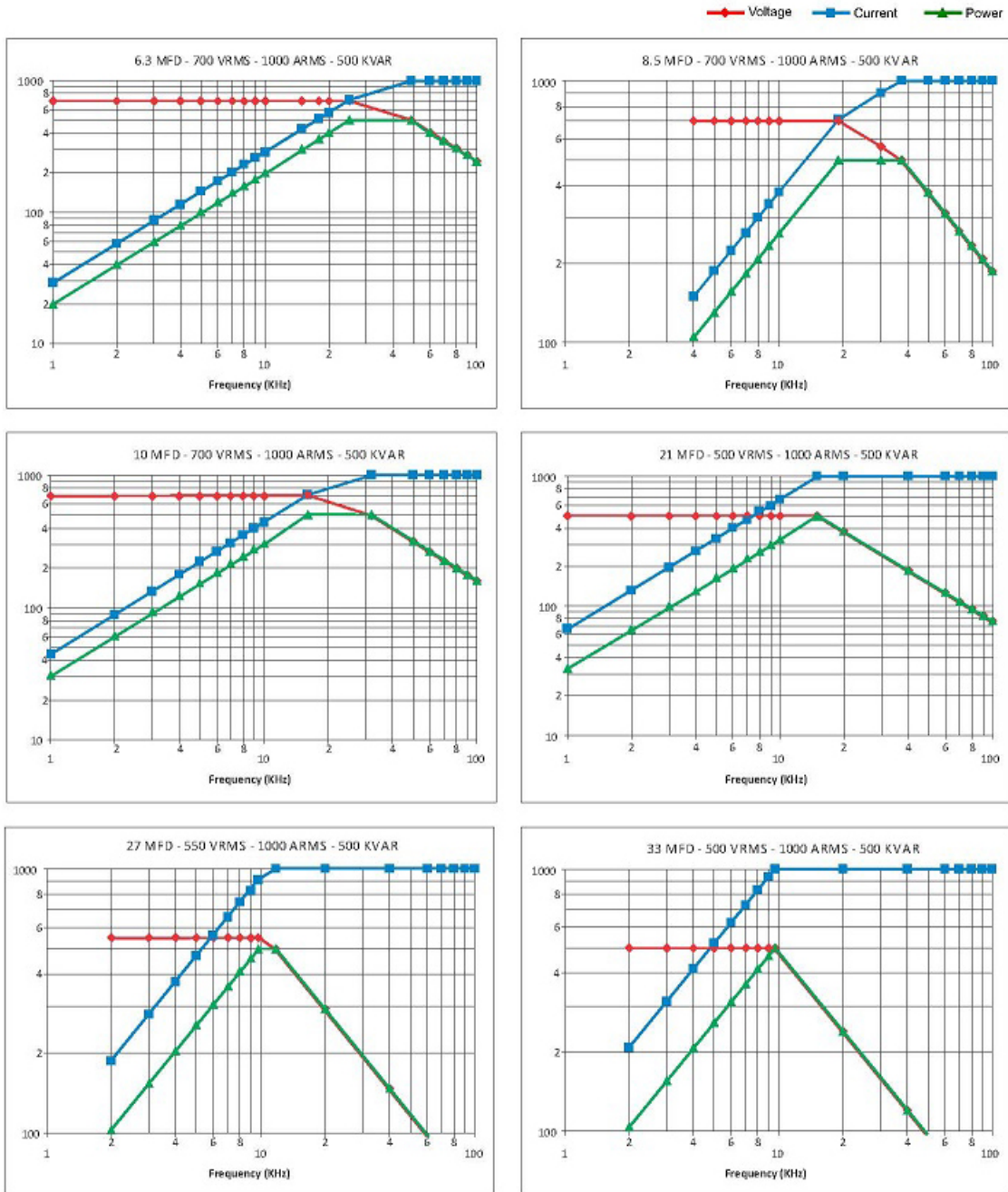


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## High Power Resonant Capacitors



### Frequency Derating

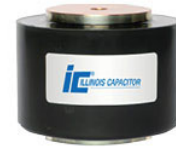


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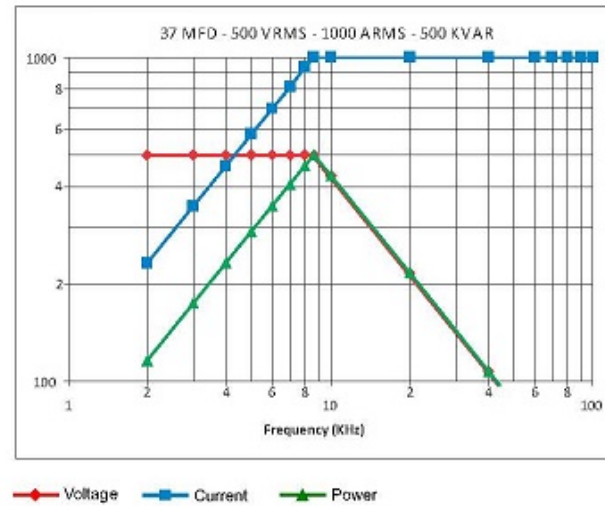


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## High Power Resonant Capacitors



### Frequency Derating



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