



#### FEATURES

High Pulse Currents - High voltage

#### APPLICATIONS

Power Semiconductor Circuits - SCR Commutation -  
Ballasts Controls - Switching Power Supplies

|                                                                                             |                                                                                                                                   |         |                       |                                                                         |      |  |
|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------|-----------------------|-------------------------------------------------------------------------|------|--|
| Operating Temperature Range                                                                 | <b>-55°C to +105°C</b>                                                                                                            |         |                       |                                                                         |      |  |
| Capacitance Tolerance                                                                       | ±10% at 1 kHz, 25°C<br>+5% optional                                                                                               |         |                       |                                                                         |      |  |
| AC voltage (50/60 Hz)                                                                       | WVDC                                                                                                                              | 630     | 1000                  | 1600                                                                    | 2000 |  |
|                                                                                             | VAC                                                                                                                               | 400     | 630                   | 650                                                                     | 700  |  |
|                                                                                             | DC: For T>+85°C , The voltage must be decreased by 1.5% per °C<br>AC: For T> +75°C, The voltage must be decreased by 1.75% per °C |         |                       |                                                                         |      |  |
| Dissipation Factor (MAX)<br>25°C                                                            | Frequency (kHz)                                                                                                                   | C≤0.1uF | 0.1uF<C≤1uF           | C>1uF                                                                   |      |  |
|                                                                                             | 1                                                                                                                                 | 0.04%   | 0.04%                 | 0.05%                                                                   |      |  |
|                                                                                             | 10                                                                                                                                | 0.05%   | 0.06%                 | -                                                                       |      |  |
|                                                                                             | 100                                                                                                                               | 0.16%   | -                     | -                                                                       |      |  |
| Insulation Resistance<br>@25°C (<70% RH)for 1 minute at<br>100VDC applied                   | Capacitance                                                                                                                       |         | Insulation Resistance |                                                                         |      |  |
|                                                                                             | ≤0.33μF                                                                                                                           |         | 100000 MΩ             |                                                                         |      |  |
|                                                                                             | >0.33μF                                                                                                                           |         | 30000 MΩxμF           |                                                                         |      |  |
| Self Inductance                                                                             | <1 nano-Henry per mm of lead spacing                                                                                              |         |                       |                                                                         |      |  |
| Capacitance Drift Factor                                                                    | <0.5% after 2 years at 40°C                                                                                                       |         |                       |                                                                         |      |  |
| Load Life                                                                                   | 2000 Hours, +85C with 125% of rated voltage                                                                                       |         |                       |                                                                         |      |  |
|                                                                                             | Capacitance Change                                                                                                                |         |                       | ≤1% of initially measured value                                         |      |  |
|                                                                                             | Dissipation Factor                                                                                                                |         |                       | ≤0.001 at 10kHz and 25°C for C≤1uF<br>≤0.001 at 1kHz and 25°C for C>1uF |      |  |
|                                                                                             | Insulation Resistance                                                                                                             |         |                       | ≥50% of maximum specified value                                         |      |  |
| Reliability<br>(0.5xRated Voltage,<br>40°C)<br>1 FIT=1 failure/1 billion<br>component hours | 1 Fit                                                                                                                             |         |                       |                                                                         |      |  |
|                                                                                             | Capacitance Change                                                                                                                |         |                       | ≤10% of initially measured value                                        |      |  |
|                                                                                             | Dissipation Factor                                                                                                                |         |                       | ≤200% of initially specified value                                      |      |  |
|                                                                                             | Insulation Resistance                                                                                                             |         |                       | ≥50% of maximum specified value                                         |      |  |
| Damp Heat test                                                                              | 56 days at40°C with 90 to 95%RH, +40°C and no voltage applied                                                                     |         |                       |                                                                         |      |  |
|                                                                                             | Capacitance Change                                                                                                                |         |                       | ≤5% of initially measured value                                         |      |  |
|                                                                                             | Dissipation Factor                                                                                                                |         |                       | ≤0.005 at 1kHz and 25°C                                                 |      |  |
|                                                                                             | Insulation Resistance                                                                                                             |         |                       | ≥50% of maximum specified value                                         |      |  |
| Self Inductance                                                                             | <1 nano-Henry per mm of lead spacing                                                                                              |         |                       |                                                                         |      |  |
| Capacitance Drift Factor                                                                    | <0.5% after 2 years at 40°C                                                                                                       |         |                       |                                                                         |      |  |
| Capacitance Temperature Coefficient                                                         | -200 ppm/°C, ±100ppm/°C                                                                                                           |         |                       |                                                                         |      |  |
| Dielectric Strength                                                                         | Terminal to Terminal                                                                                                              |         |                       |                                                                         |      |  |
|                                                                                             | 160% of rated VDC applied for 2 Seconds and 25°C                                                                                  |         |                       |                                                                         |      |  |
| Dielectric                                                                                  | Polypropylene                                                                                                                     |         |                       |                                                                         |      |  |
| Construction                                                                                | Metallized film                                                                                                                   |         |                       |                                                                         |      |  |
| Coating                                                                                     | Flame Retardant plastic box (UL 94V-1) with epoxy resin fill (UL94V0)                                                             |         |                       |                                                                         |      |  |
| Leads                                                                                       | Lead free tinned copper leads                                                                                                     |         |                       |                                                                         |      |  |

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DUBILIER**

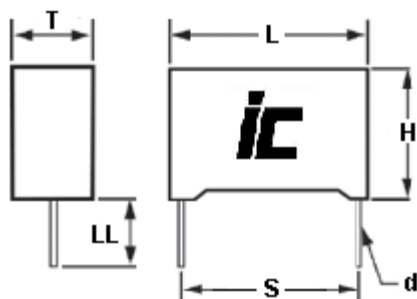


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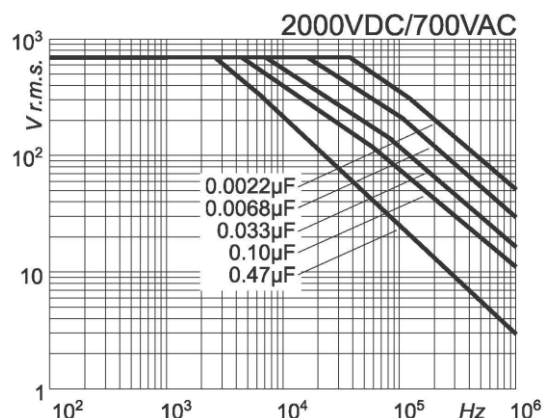
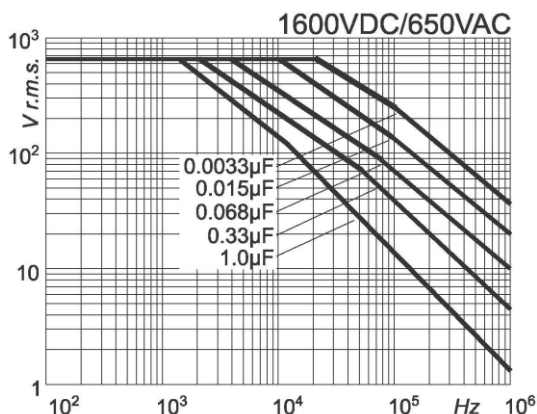
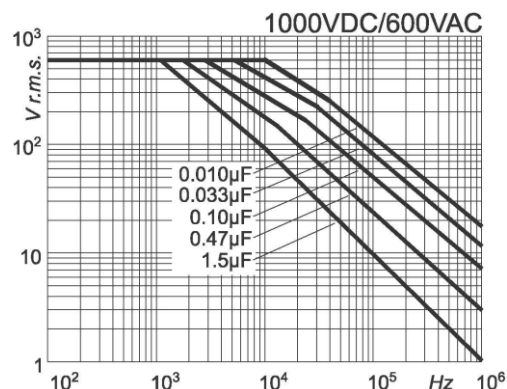
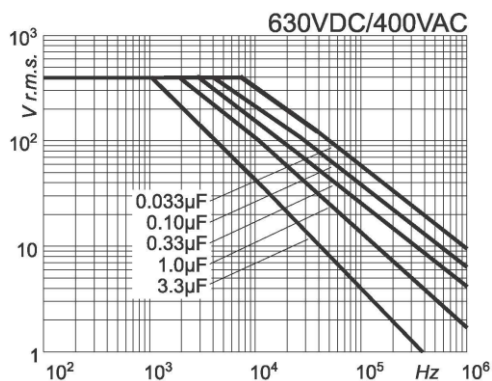
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Sep-20



|    |         |         |        |        |
|----|---------|---------|--------|--------|
| L  | 18      | 26.5    | 32     | 42.5   |
| S  | 15      | 22.5    | 27.5   | 37.5   |
| d  | 0.8     | 0.8     | 0.8    | 1.2    |
| LL | 5.0+1.0 | 5.0+1.0 | 30+5.0 | 30+5.0 |

Permissible (sinusoidal) AC voltage versus frequency for a temperature rise of 10°C  
Not for across the line applications



# PPR

## High Voltage Pulse Radial Lead Snubber

| WVDC | Capacitance (μF) | IC PART NUMBER              | dv/dt (v/μ sec.) | Dims LxHxT (mm) | S (MM) | d (MM) |
|------|------------------|-----------------------------|------------------|-----------------|--------|--------|
| 630  | 0.022            | <a href="#">223PPR630KE</a> | 2500             | 18x11x5         | 15     | 0.8    |
| 630  | 0.033            | <a href="#">333PPR630KE</a> | 2500             | 18x12x6         | 15     | 0.8    |
| 630  | 0.047            | <a href="#">473PPR630KE</a> | 2500             | 18x13.5x7.5     | 15     | 0.8    |
| 630  | 0.068            | <a href="#">683PPR630KE</a> | 2500             | 18x14.5x8.5     | 15     | 0.8    |
| 630  | 0.068            | <a href="#">683PPR630KG</a> | 1500             | 26.5x15x6       | 22.5   | 0.8    |
| 630  | 0.1              | <a href="#">104PPR630KE</a> | 2500             | 18x16x10        | 15     | 0.8    |
| 630  | 0.1              | <a href="#">104PPR630KG</a> | 1500             | 26.5x15x6       | 22.5   | 0.8    |
| 630  | 0.15             | <a href="#">154PPR630KG</a> | 1500             | 26.5x17x8.5     | 22.5   | 0.8    |
| 630  | 0.15             | <a href="#">154PPR630KH</a> | 900              | 32x17x9         | 27.5   | 0.8    |
| 630  | 0.22             | <a href="#">224PPR630KG</a> | 1500             | 26.5x18.5x10    | 22.5   | 0.8    |
| 630  | 0.22             | <a href="#">224PPR630KH</a> | 900              | 32x17x9         | 27.5   | 0.8    |
| 630  | 0.33             | <a href="#">334PPR630KG</a> | 1500             | 26.5x22x12      | 22.5   | 0.8    |
| 630  | 0.33             | <a href="#">334PPR630KH</a> | 900              | 32x20x11        | 27.5   | 0.8    |
| 630  | 0.47             | <a href="#">474PPR630KH</a> | 900              | 32x22x13        | 27.5   | 0.8    |
| 630  | 0.68             | <a href="#">684PPR630KH</a> | 900              | 32x24.5x15      | 27.5   | 0.8    |
| 630  | 1                | <a href="#">105PPR630KH</a> | 900              | 32x33x18        | 27.5   | 0.8    |
| 630  | 1                | <a href="#">105PPR630KJ</a> | 450              | 42.5x28x17      | 37.5   | 1      |
| 630  | 1.5              | <a href="#">155PPR630KH</a> | 900              | 32x37x22        | 27.5   | 0.8    |
| 630  | 1.5              | <a href="#">155PPR630KJ</a> | 450              | 42.5x30x22      | 37.5   | 1      |
| 630  | 2.2              | <a href="#">225PPR630KJ</a> | 450              | 42.5x37x28      | 37.5   | 1      |
| 630  | 3.3              | <a href="#">335PPR630KJ</a> | 450              | 42.5x45x30      | 37.5   | 1      |
| 630  | 3.9              | <a href="#">395PPR630KJ</a> | 450              | 42.5x45x30      | 37.5   | 1      |
| 1000 | 0.01             | <a href="#">103PPR102KE</a> | 3300             | 18x11x5         | 15     | 0.8    |
| 1000 | 0.015            | <a href="#">153PPR102KE</a> | 3300             | 18x12x6         | 15     | 0.8    |
| 1000 | 0.022            | <a href="#">223PPR102KE</a> | 3300             | 18x13.5x7.5     | 15     | 0.8    |
| 1000 | 0.033            | <a href="#">333PPR102KE</a> | 3300             | 18x14.5x8.5     | 15     | 0.8    |
| 1000 | 0.033            | <a href="#">333PPR102KG</a> | 2100             | 26.5x15x6       | 22.5   | 0.8    |
| 1000 | 0.047            | <a href="#">473PPR102KG</a> | 2100             | 26.5x16x7       | 22.5   | 0.8    |
| 1000 | 0.068            | <a href="#">683PPR102KG</a> | 2100             | 26.5x17x8.5     | 22.5   | 0.8    |
| 1000 | 0.1              | <a href="#">104PPR102KG</a> | 2100             | 26.5x18.5x10    | 22.5   | 0.8    |
| 1000 | 0.1              | <a href="#">104PPR102KH</a> | 1000             | 32x17x9         | 27.5   | 0.8    |
| 1000 | 0.15             | <a href="#">154PPR102KH</a> | 2100             | 26.5x22x13      | 22.5   | 0.8    |
| 1000 | 0.15             | <a href="#">154PPR102KH</a> | 1000             | 32x20x11        | 27.5   | 0.8    |
| 1000 | 0.22             | <a href="#">224PPR102KH</a> | 1000             | 32x22x13        | 27.5   | 0.8    |
| 1000 | 0.33             | <a href="#">334PPR102KH</a> | 1000             | 32x28x14        | 27.5   | 0.8    |
| 1000 | 0.47             | <a href="#">474PPR102KH</a> | 1000             | 32x33x18        | 27.5   | 0.8    |
| 1000 | 0.68             | <a href="#">684PPR102KH</a> | 1000             | 32x37x22        | 27.5   | 0.8    |
| 1000 | 0.68             | <a href="#">684PPR102KJ</a> | 500              | 42.5x30x22      | 37.5   | 1      |
| 1000 | 1                | <a href="#">105PPR102KJ</a> | 500              | 42.5x37x28      | 37.5   | 1      |
| 1000 | 1.5              | <a href="#">155PPR102KJ</a> | 500              | 42.5x37x28      | 37.5   | 1      |
| 1000 | 1.8              | <a href="#">185PPR102KJ</a> | 500              | 42.5x45x30      | 37.5   | 1      |
| 1600 | 0.0033           | <a href="#">332PPR162KE</a> | 6000             | 18x11x5         | 15     | 0.8    |
| 1600 | 0.0047           | <a href="#">472PPR162KE</a> | 6000             | 18x11x5         | 15     | 0.8    |

| WVDC | Capacitance (μF) | IC PART NUMBER              | dv/dt (v/μ sec.) | Dims LxHxT (mm) | S (MM) | d (MM) |
|------|------------------|-----------------------------|------------------|-----------------|--------|--------|
| 1600 | 0.0068           | <a href="#">682PPR162KE</a> | 6000             | 18x11x5         | 15     | 0.8    |
| 1600 | 0.01             | <a href="#">103PPR162KE</a> | 6000             | 18x12x6         | 15     | 0.8    |
| 1600 | 0.015            | <a href="#">153PPR162KE</a> | 6000             | 18x13.5x7.5     | 15     | 0.8    |
| 1600 | 0.022            | <a href="#">223PPR162KE</a> | 6000             | 18x14.5x8.5     | 15     | 0.8    |
| 1600 | 0.022            | <a href="#">223PPR162KG</a> | 3000             | 26.5x15x6       | 22.5   | 0.8    |
| 1600 | 0.033            | <a href="#">333PPR162KG</a> | 3000             | 26.5x16x7       | 22.5   | 0.8    |
| 1600 | 0.047            | <a href="#">473PPR162KG</a> | 3000             | 26.5x18.5x10    | 22.5   | 0.8    |
| 1600 | 0.047            | <a href="#">473PPR162KH</a> | 2000             | 32x17x9         | 27.5   | 0.8    |
| 1600 | 0.068            | <a href="#">683PPR162KG</a> | 3000             | 26.5x20x11      | 22.5   | 0.8    |
| 1600 | 0.068            | <a href="#">683PPR162KH</a> | 2000             | 32x17x9         | 27.5   | 0.8    |
| 1600 | 0.1              | <a href="#">104PPR162KG</a> | 3000             | 26.5x22x13      | 22.5   | 0.8    |
| 1600 | 0.1              | <a href="#">104PPR162KH</a> | 2000             | 32x20x11        | 27.5   | 0.8    |
| 1600 | 0.15             | <a href="#">154PPR162KH</a> | 2000             | 32x24.5x15      | 27.5   | 0.8    |
| 1600 | 0.22             | <a href="#">224PPR162KH</a> | 2000             | 32x33x18        | 27.5   | 0.8    |
| 1600 | 0.33             | <a href="#">334PPR162KH</a> | 2000             | 32x33x18        | 27.5   | 0.8    |
| 1600 | 0.33             | <a href="#">334PPR162KJ</a> | 1200             | 42.5x28x17      | 37.5   | 1      |
| 1600 | 0.47             | <a href="#">474PPR162KH</a> | 2000             | 32x37x22        | 27.5   | 0.8    |
| 1600 | 0.47             | <a href="#">474PPR162KJ</a> | 1200             | 42.5x30x22      | 37.5   | 1      |
| 1600 | 0.68             | <a href="#">684PPR162KJ</a> | 1200             | 42.5x37x28      | 37.5   | 1      |
| 1600 | 1                | <a href="#">105PPR162KJ</a> | 1200             | 42.5x45x30      | 37.5   | 1      |
| 2000 | 0.0022           | <a href="#">222PPR202KE</a> | 7000             | 18x11x5         | 15     | 0.8    |
| 2000 | 0.0033           | <a href="#">332PPR202KE</a> | 7000             | 18x12x6         | 15     | 0.8    |
| 2000 | 0.0047           | <a href="#">472PPR202KE</a> | 7000             | 18x13.5x7.5     | 15     | 0.8    |
| 2000 | 0.0068           | <a href="#">682PPR202KE</a> | 7000             | 18x13.5x7.5     | 15     | 0.8    |
| 2000 | 0.01             | <a href="#">103PPR202KE</a> | 7000             | 18x16x10        | 15     | 0.8    |
| 2000 | 0.01             | <a href="#">103PPR202KG</a> | 3500             | 26.5x15x6       | 22.5   | 0.8    |
| 2000 | 0.015            | <a href="#">153PPR202KG</a> | 3500             | 26.5x16x7       | 22.5   | 0.8    |
| 2000 | 0.022            | <a href="#">223PPR202KG</a> | 3500             | 26.5x17x8.5     | 22.5   | 0.8    |
| 2000 | 0.022            | <a href="#">223PPR202KH</a> | 2300             | 32x17x9         | 27.5   | 0.8    |
| 2000 | 0.033            | <a href="#">333PPR202KG</a> | 3500             | 26.5x18.5x10    | 22.5   | 0.8    |
| 2000 | 0.033            | <a href="#">333PPR202KH</a> | 2300             | 32x17x9         | 27.5   | 0.8    |
| 2000 | 0.047            | <a href="#">473PPR202KG</a> | 3500             | 26.5x22x13      | 22.5   | 0.8    |
| 2000 | 0.047            | <a href="#">473PPR202KH</a> | 2300             | 32x20x11        | 27.5   | 0.8    |
| 2000 | 0.068            | <a href="#">683PPR202KH</a> | 2300             | 32x22x13        | 27.5   | 0.8    |
| 2000 | 0.1              | <a href="#">104PPR202KH</a> | 2300             | 32x28x14        | 27.5   | 0.8    |
| 2000 | 0.15             | <a href="#">154PPR202KH</a> | 2300             | 32x33x18        | 27.5   | 0.8    |
| 2000 | 0.15             | <a href="#">154PPR202KJ</a> | 1500             | 42.5x28x17      | 37.5   | 1      |
| 2000 | 0.22             | <a href="#">224PPR202KH</a> | 2300             | 32x37x22        | 27.5   | 0.8    |
| 2000 | 0.22             | <a href="#">224PPR202KJ</a> | 1500             | 42.5x30x22      | 37.5   | 1      |
| 2000 | 0.33             | <a href="#">334PPR202KJ</a> | 1500             | 42.5x37x28      | 37.5   | 1      |
| 2000 | 0.47             | <a href="#">474PPR202KJ</a> | 1500             | 42.5x37x28      | 37.5   | 1      |
| 2000 | 0.56             | <a href="#">564PPR202KJ</a> | 1500             | 42.5x45x30      | 37.5   | 1      |

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