



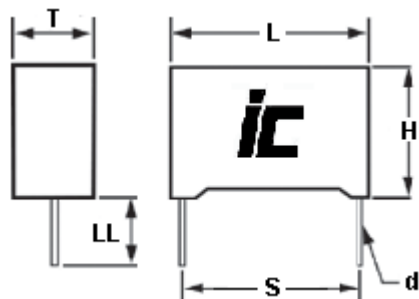
#### FEATURES

High Current - High Voltage - Good Pulse Current Rating

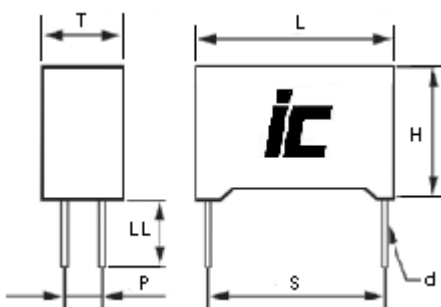
#### APPLICATIONS

Resonant Circuits - Switching Power Supplies -  
Motor Speed Controls - Induction Heaters

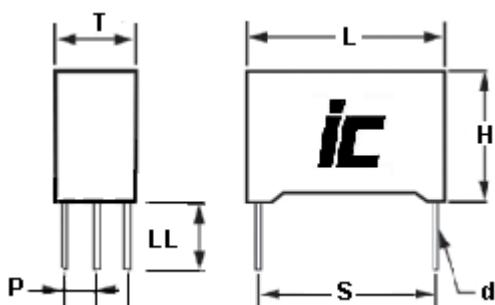
|                                                                           |                                                                                    |       |     |          |                                 |                                                                            |      |  |
|---------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------|-----|----------|---------------------------------|----------------------------------------------------------------------------|------|--|
| Operating Temperature Range                                               | -40°C to +100°C                                                                    |       |     |          |                                 |                                                                            |      |  |
| Capacitance Tolerance                                                     | +10% at 1 kHz, 25°C<br>+5% optional                                                |       |     |          |                                 |                                                                            |      |  |
| Non-Recurrent SVDC                                                        | WVDC                                                                               | 250   | 330 | 400      | 600                             | 700                                                                        | 850  |  |
|                                                                           | SVDC                                                                               | 400   | 500 | 600      | 800                             | 1000                                                                       | 1200 |  |
| AC voltage (50/60 Hz)                                                     | WVDC                                                                               | 250   | 330 | 400      | 600                             | 700                                                                        | 850  |  |
|                                                                           | VAC                                                                                | 160   | 220 | 275      | 350                             | 400                                                                        | 500  |  |
| For T>+85°C , The voltage (DC/AC)must be decreased by (1.5/2.5)% per °C   |                                                                                    |       |     |          |                                 |                                                                            |      |  |
| Dissipation Factor (MAX)<br>25°C                                          | Frequency (kHz)                                                                    | C≤5uF |     | 5<C≤25uF |                                 | C>25uF                                                                     |      |  |
|                                                                           | 1                                                                                  | 0.05% |     | 0.08%    |                                 | 0.1%                                                                       |      |  |
| Insulation Resistance<br>@25°C (<70% RH)for 1 minute at<br>100VDC applied | Insulation Resistance                                                              |       |     |          |                                 |                                                                            |      |  |
|                                                                           | 30000 MΩxuF<br>(not to exceed 30GΩ)                                                |       |     |          |                                 |                                                                            |      |  |
| Self Inductance                                                           | <1 nano-Henry per mm of lead spacing                                               |       |     |          |                                 |                                                                            |      |  |
| Capacitance Drift Factor                                                  | <0.5% after 2 years at 40°C                                                        |       |     |          |                                 |                                                                            |      |  |
| Life Expectancy                                                           | 100000 Hours @WVDC<br>30000 Hours @ VAC                                            |       |     |          |                                 |                                                                            |      |  |
|                                                                           | Capacitance Change                                                                 |       |     |          | ≤3% of initially measured value |                                                                            |      |  |
| Failure quota                                                             | 300/ Billion component hours                                                       |       |     |          |                                 |                                                                            |      |  |
| Damp Heat test                                                            | 56 days at40°C with 90 to 95%RH, +40°C and no voltage applied                      |       |     |          |                                 |                                                                            |      |  |
|                                                                           | Capacitance Change                                                                 |       |     |          | ≤2% of initially measured value |                                                                            |      |  |
|                                                                           | Dissipation Factor                                                                 |       |     |          | ≤0.001 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                                                               |       |     |          |                                 | Terminal to case                                                           |      |  |
|                                                                           | 160% of rated VDCApplied for 10 seconds or 150% VAC applied for 2 Seconds and 25°C |       |     |          |                                 | 3kVAC @ 50/60 Hz applied between terminals and case for 60 seconds at 25°C |      |  |
| Dielectric                                                                | Polypropylene                                                                      |       |     |          |                                 |                                                                            |      |  |
| Construction                                                              | Metallized film                                                                    |       |     |          |                                 |                                                                            |      |  |
| Coating                                                                   | Flame Retardant plastic box with epoxy resin (UL94V-0)                             |       |     |          |                                 |                                                                            |      |  |
| Leads                                                                     | Lead free tinned copper leads                                                      |       |     |          |                                 |                                                                            |      |  |



|   |      |      |           |       |      |      |
|---|------|------|-----------|-------|------|------|
| L | 26.5 | 32   | 32        | 32    | 42.5 | 57.5 |
| H | ALL  | <20  | 20<H<24.5 | >24.5 | ALL  | ALL  |
| T | ALL  | ALL  | <18       | ALL   | ALL  | ALL  |
| S | 22.5 | 27.5 | 27.5      | 27.5  | 37.5 | 52.5 |
| d | 0.8  | 0.8  | 1.0       | 1.2   | 1.2  | 1.2  |



|   |      |      |      |
|---|------|------|------|
| L | 32   | 42.5 | 57.5 |
| S | 27.5 | 37.5 | 52.5 |
| d | 1.2  | 1.2  | 1.2  |



|   |      |      |
|---|------|------|
| L | 42.5 | 57.5 |
| S | 37.5 | 52.5 |
| d | 1.2  | 1.2  |

# PHB

Metallized Polypropylene,  
High Frequency radial lead  
box

| Capacitance<br>(μF) | WVDC | IC PART NUMBER | dv/dt<br>(V/μ sec.) | Maximum<br>RMS Ripple<br>Current<br>(A)<br>100 kHz,<br>+70°C | Typical<br>ESR (mΩ)<br>100 kHz,<br>+25°C | Dims LxHxT<br>(mm) | S (MM) | d (MM) | P (MM) | # Leads |
|---------------------|------|----------------|---------------------|--------------------------------------------------------------|------------------------------------------|--------------------|--------|--------|--------|---------|
| 0.1                 | 850  | 104PHB850K2H   | 300                 | 4                                                            | 15                                       | 32x17x9            | 27.5   | 0.8    |        | 2       |
| 0.1                 | 850  | 104PHB850K2G   | 375                 | 4                                                            | 13                                       | 26.5x16x7          | 22.5   | 0.8    |        | 2       |
| 0.15                | 700  | 154PHB700K2G   | 135                 | 4                                                            | 13                                       | 26.5x16x7          | 22.5   | 0.8    |        | 2       |
| 0.15                | 850  | 154PHB850K2G   | 375                 | 5                                                            | 9.7                                      | 26.5x18.5x10       | 22.5   | 0.8    |        | 2       |
| 0.15                | 850  | 154PHB850K2H   | 300                 | 5.5                                                          | 11                                       | 32x20x11           | 27.5   | 0.8    |        | 2       |
| 0.22                | 600  | 224PHB600K2G   | 95                  | 3.5                                                          | 13                                       | 26.5x16x7          | 22.5   | 0.8    |        | 2       |
| 0.22                | 700  | 224PHB700K2G   | 135                 | 4.5                                                          | 11                                       | 26.5x17x8.5        | 22.5   | 0.8    |        | 2       |
| 0.22                | 850  | 224PHB850K2G   | 375                 | 7                                                            | 7.6                                      | 26.5x22x13         | 22.5   | 0.8    |        | 2       |
| 0.22                | 850  | 224PHB850K2H   | 300                 | 6.5                                                          | 8.3                                      | 32x20x11           | 27.5   | 0.8    |        | 2       |
| 0.33                | 600  | 334PHB600K2G   | 95                  | 5                                                            | 9.5                                      | 26.5x17x8.5        | 22.5   | 0.8    |        | 2       |
| 0.33                | 700  | 334PHB700K2G   | 135                 | 6                                                            | 8.5                                      | 26.5x20x11         | 22.5   | 0.8    |        | 2       |
| 0.33                | 700  | 334PHB700K2H   | 105                 | 6                                                            | 11                                       | 32x20x11           | 27.5   | 0.8    |        | 2       |
| 0.33                | 850  | 334PHB850K2H   | 300                 | 8                                                            | 6.3                                      | 32x22x13           | 27.5   | 1      |        | 2       |
| 0.47                | 400  | 474PHB400K2G   | 75                  | 4.5                                                          | 8.6                                      | 26.5x16x7          | 22.5   | 0.8    |        | 2       |
| 0.47                | 600  | 474PHB600K2G   | 95                  | 6                                                            | 8.3                                      | 26.5x18.5x10       | 22.5   | 0.8    |        | 2       |
| 0.47                | 600  | 474PHB600K2H   | 75                  | 6                                                            | 10                                       | 32x20x11           | 27.5   | 0.8    |        | 2       |
| 0.47                | 700  | 474PHB700K2H   | 105                 | 7.5                                                          | 7.5                                      | 32x22x13           | 27.5   | 1      |        | 2       |
| 0.47                | 850  | 474PHB850K2H   | 300                 | 9.5                                                          | 5.1                                      | 32x24.5x15         | 27.5   | 1.2    |        | 2       |
| 0.68                | 330  | 684PHB330K2G   | 60                  | 5                                                            | 8.9                                      | 26.5x16x7          | 22.5   | 0.8    |        | 2       |
| 0.68                | 400  | 684PHB400K2G   | 75                  | 6.5                                                          | 7.1                                      | 26.5x18.5x10       | 22.5   | 0.8    |        | 2       |
| 0.68                | 400  | 684PHB400K2H   | 55                  | 6.5                                                          | 8.8                                      | 32x20x11           | 27.5   | 0.8    |        | 2       |
| 0.68                | 600  | 684PHB600K2H   | 75                  | 7                                                            | 7.6                                      | 32x20x11           | 27.5   | 0.8    |        | 2       |
| 0.68                | 600  | 684PHB600K2G   | 95                  | 7                                                            | 6.9                                      | 26.5x22x13         | 22.5   | 0.8    |        | 2       |
| 0.68                | 700  | 684PHB700K2H   | 105                 | 9                                                            | 6.1                                      | 32x24.5x15         | 27.5   | 1      |        | 2       |
| 0.68                | 850  | 684PHB850K2H   | 300                 | 14                                                           | 3.8                                      | 32x33x18           | 27.5   | 1.2    |        | 2       |
| 0.68                | 850  | 684PHB850K4H   | 300                 | 16                                                           | 3.1                                      | 32x33x18           | 27.5   | 1.2    | 5.1    | 4       |
| 1                   | 250  | 105PHB250K2G   | 50                  | 4.5                                                          | 7.6                                      | 26.5x16x7          | 22.5   | 0.8    |        | 2       |
| 1                   | 330  | 105PHB330K2G   | 60                  | 6.5                                                          | 7                                        | 26.5x18.5x10       | 22.5   | 0.8    |        | 2       |
| 1                   | 400  | 105PHB400K2G   | 75                  | 7.5                                                          | 5.8                                      | 26.5x20x11         | 22.5   | 0.8    |        | 2       |
| 1                   | 400  | 105PHB400K2H   | 55                  | 7                                                            | 6.7                                      | 32x20x11           | 27.5   | 0.8    |        | 2       |
| 1                   | 600  | 105PHB600K2H   | 75                  | 8.5                                                          | 6.1                                      | 32x22x13           | 27.5   | 1      |        | 2       |
| 1                   | 700  | 105PHB700K2H   | 105                 | 13                                                           | 4.6                                      | 32x33x18           | 27.5   | 1.2    |        | 2       |
| 1                   | 700  | 105PHB700K4H   | 105                 | 15.5                                                         | 3.9                                      | 32x33x18           | 27.5   | 1.2    | 10.2   | 4       |
| 1                   | 850  | 105PHB850K4H   | 300                 | 20.5                                                         | 2.4                                      | 32x37x22           | 27.5   | 1.2    | 10.2   | 4       |
| 1                   | 850  | 105PHB850K2H   | 300                 | 14                                                           | 3.1                                      | 32x37x22           | 27.5   | 1.2    |        | 2       |
| 1                   | 850  | 105PHB850K2J   | 200                 | 13                                                           | 4.2                                      | 42.5x28x17         | 37.5   | 1.2    |        | 2       |
| 1.5                 | 250  | 155PHB250K2G   | 50                  | 6.5                                                          | 6.1                                      | 26.5x17x8.5        | 22.5   | 0.8    |        | 2       |
| 1.5                 | 250  | 155PHB250K2H   | 40                  | 6.5                                                          | 7.1                                      | 32x20x11           | 27.5   | 0.8    |        | 2       |
| 1.5                 | 330  | 155PHB330K2H   | 45                  | 7.5                                                          | 6.1                                      | 32x20x11           | 27.5   | 0.8    |        | 2       |
| 1.5                 | 400  | 155PHB400K2H   | 55                  | 9                                                            | 5.3                                      | 32x22x13           | 27.5   | 1      |        | 2       |
| 1.5                 | 600  | 155PHB600K2H   | 75                  | 11.5                                                         | 4.6                                      | 32x28x14           | 27.5   | 1.2    |        | 2       |
| 1.5                 | 700  | 155PHB700K2H   | 105                 | 14                                                           | 4                                        | 32x37x22           | 37.5   | 1.2    |        | 2       |
| 1.5                 | 700  | 155PHB700K2J   | 70                  | 12                                                           | 5.6                                      | 42.5x28x17         | 37.5   | 1.2    |        | 2       |
| 1.5                 | 700  | 155PHB700K4H   | 105                 | 18                                                           | 3.3                                      | 32x37x22           | 27.5   | 1.2    | 10.2   | 4       |
| 1.5                 | 850  | 155PHB850K2J   | 200                 | 14                                                           | 3.4                                      | 42.5x30x22         | 37.5   | 1.2    |        | 2       |
| 2                   | 250  | 205PHB250K2G   | 50                  | 7.5                                                          | 5.3                                      | 26.5x20x11         | 22.5   | 0.8    |        | 2       |
| 2                   | 250  | 205PHB250K2H   | 40                  | 7                                                            | 6.1                                      | 32x20x11           | 27.5   | 0.8    |        | 2       |
| 2                   | 330  | 205PHB330K2H   | 45                  | 8.5                                                          | 5.3                                      | 32x22x13           | 27.5   | 1      |        | 2       |
| 2                   | 400  | 205PHB400K2H   | 55                  | 10                                                           | 4.7                                      | 32x24.5x15         | 27.5   | 1.2    |        | 2       |
| 2                   | 600  | 205PHB600K2H   | 75                  | 14                                                           | 3.9                                      | 32x33x18           | 27.5   | 1.2    |        | 2       |
| 2                   | 600  | 205PHB600K4H   | 75                  | 16                                                           | 3.2                                      | 32x33x18           | 27.5   | 1.2    | 10.2   | 4       |
| 2                   | 700  | 205PHB700K2H   | 105                 | 14                                                           | 3.5                                      | 32x37x22           | 27.5   | 1.2    |        | 2       |
| 2                   | 700  | 205PHB700K2J   | 70                  | 13                                                           | 4.9                                      | 42.5x30x22         | 37.5   | 1.2    |        | 2       |
| 2                   | 700  | 205PHB700K4H   | 105                 | 20                                                           | 2.8                                      | 32x37x22           | 27.5   | 1.2    | 10.2   | 4       |
| 2                   | 850  | 205PHB850K4J   | 200                 | 23                                                           | 2.3                                      | 42.5x37x28         | 37.5   | 1.2    | 10.2   | 4       |
| 2                   | 850  | 205PHB850K2J   | 200                 | 14                                                           | 3                                        | 42.5x37x28         | 37.5   | 1.2    |        | 2       |
| 2.2                 | 250  | 225PHB250K2G   | 50                  | 7.5                                                          | 5.1                                      | 26.5x20x11         | 22.5   | 0.8    |        | 2       |
| 2.2                 | 250  | 225PHB250K2H   | 40                  | 7                                                            | 5.8                                      | 32x20x11           | 27.5   | 0.8    |        | 2       |

# PHB

Metallized Polypropylene,  
High Frequency radial lead  
box

| Capacitance<br>(μF) | WVDC | IC PART NUMBER | dv/dt<br>(V/μ sec.) | Maximum<br>RMS Ripple<br>Current<br>(A)<br>100 kHz,<br>+70°C | Typical<br>ESR (mΩ)<br>100 kHz,<br>+25°C | Dims LxHxT<br>(mm) | S (MM) | d (MM) | P (MM) | # Leads |
|---------------------|------|----------------|---------------------|--------------------------------------------------------------|------------------------------------------|--------------------|--------|--------|--------|---------|
| 2.2                 | 330  | 225PHB330K2H   | 45                  | 9                                                            | 5.1                                      | 32x22x13           | 27.5   | 1      |        | 2       |
| 2.2                 | 400  | 225PHB400K2H   | 55                  | 10.5                                                         | 4.4                                      | 32x24.5x15         | 27.5   | 1.2    |        | 2       |
| 2.2                 | 600  | 225PHB600K2H   | 75                  | 14                                                           | 3.9                                      | 32x33x18           | 27.5   | 1.2    |        | 2       |
| 2.2                 | 600  | 225PHB600K4H   | 75                  | 16.5                                                         | 3.2                                      | 32x33x18           | 27.5   | 1.2    | 10.2   | 4       |
| 2.2                 | 700  | 225PHB700K2J   | 70                  | 12                                                           | 4.7                                      | 42.5x30x22         | 37.5   | 1.2    |        | 2       |
| 2.2                 | 700  | 225PHB700K4J   | 70                  | 15.5                                                         | 4                                        | 42.5x37x28         | 37.5   | 1.2    | 10.2   | 2       |
| 2.2                 | 850  | 225PHB850K2J   | 200                 | 14                                                           | 3                                        | 42.5x37x28         | 37.5   | 1.2    |        | 2       |
| 2.2                 | 850  | 225PHB850K4J   | 200                 | 24.5                                                         | 2.3                                      | 42.5x37x28         | 37.5   | 1.2    | 10.2   | 4       |
| 2.5                 | 250  | 255PHB250K2H   | 40                  | 8                                                            | 5.4                                      | 32x20x11           | 27.5   | 0.8    |        | 2       |
| 2.5                 | 330  | 255PHB330K2H   | 45                  | 9.5                                                          | 4.9                                      | 32x22x13           | 27.5   | 1      |        | 2       |
| 2.5                 | 400  | 255PHB400K2H   | 55                  | 11                                                           | 4.2                                      | 32x24.5x15         | 27.5   | 1.2    |        | 2       |
| 2.5                 | 850  | 255PHB850K2J   | 200                 | 14                                                           | 2.8                                      | 42.5x37x28         | 37.5   | 1.2    |        | 2       |
| 2.5                 | 850  | 255PHB850K4J   | 200                 | 24                                                           | 2.1                                      | 42.5x37x28         | 37.5   | 1.2    | 20.3   | 4       |
| 3                   | 250  | 305PHB250K2H   | 40                  | 9                                                            | 4.8                                      | 32x22x13           | 27.5   | 1      |        | 2       |
| 3                   | 330  | 305PHB330K2H   | 45                  | 10.5                                                         | 4.3                                      | 32x24.5x15         | 27.5   | 1      |        | 2       |
| 3                   | 400  | 305PHB400K4H   | 55                  | 17                                                           | 2.9                                      | 32x33x18           | 27.5   | 1.2    | 5.1    | 4       |
| 3                   | 400  | 305PHB400K2H   | 55                  | 14                                                           | 3.6                                      | 32x33x18           | 27.5   | 1.2    |        | 2       |
| 3                   | 600  | 305PHB600K2H   | 75                  | 14                                                           | 3.3                                      | 32x37x22           | 27.5   | 1.2    |        | 2       |
| 3                   | 600  | 305PHB600K2J   | 55                  | 14                                                           | 4.3                                      | 42.5x30x22         | 37.5   | 1.2    |        | 2       |
| 3                   | 600  | 305PHB600K4H   | 75                  | 21                                                           | 2.6                                      | 32x37x22           | 27.5   | 1.2    | 10.2   | 4       |
| 3                   | 700  | 305PHB700K4J   | 70                  | 20                                                           | 3.2                                      | 42.5x37x28         | 37.5   | 1.2    | 10.2   | 4       |
| 3                   | 700  | 305PHB700K2J   | 70                  | 14                                                           | 3.9                                      | 42.5x37x28         | 37.5   | 1.2    |        | 2       |
| 3                   | 850  | 305PHB850K2J   | 200                 | 14                                                           | 2.4                                      | 42.5x45x30         | 37.5   | 1.2    |        | 2       |
| 3                   | 850  | 305PHB850K4J   | 200                 | 27                                                           | 1.8                                      | 42.5x45x30         | 37.5   | 1.2    | 20.3   | 4       |
| 3.3                 | 250  | 335PHB250K2H   | 40                  | 9.5                                                          | 4.3                                      | 32x22x13           | 27.5   | 1      |        | 2       |
| 3.3                 | 330  | 335PHB330K2H   | 45                  | 10.5                                                         | 4.1                                      | 32x24.5x15         | 27.5   | 1      |        | 2       |
| 3.3                 | 400  | 335PHB400K4H   | 55                  | 17.5                                                         | 2.8                                      | 32x33x18           | 27.5   | 1.2    | 5.1    | 4       |
| 3.3                 | 400  | 335PHB400K2H   | 55                  | 14                                                           | 3.5                                      | 32x33x18           | 27.5   | 1.2    |        | 2       |
| 3.3                 | 600  | 335PHB600K2H   | 75                  | 14                                                           | 3.2                                      | 32x37x22           | 27.5   | 1.2    |        | 2       |
| 3.3                 | 600  | 335PHB600K2J   | 55                  | 14                                                           | 4.1                                      | 42.5x30x22         | 37.5   | 1.2    |        | 2       |
| 3.3                 | 600  | 335PHB600K4H   | 75                  | 21.5                                                         | 2.5                                      | 32x37x22           | 27.5   | 1.2    | 10.2   | 4       |
| 3.3                 | 700  | 335PHB700K4J   | 70                  | 21.5                                                         | 3.1                                      | 42.5x37x28         | 37.5   | 1.2    | 20.3   | 4       |
| 3.3                 | 700  | 335PHB700K2J   | 70                  | 14                                                           | 3.8                                      | 42.5x37x28         | 37.5   | 1.2    |        | 2       |
| 3.3                 | 850  | 335PHB850K2J   | 200                 | 14                                                           | 2.4                                      | 42.5x45x30         | 37.5   | 1.2    |        | 2       |
| 3.3                 | 850  | 335PHB850K4J   | 200                 | 27                                                           | 1.8                                      | 42.5x45x30         | 37.5   | 1.2    | 20.3   | 4       |
| 4                   | 250  | 405PHB250K2H   | 40                  | 10.5                                                         | 3.8                                      | 32x22x13           | 27.5   | 1      |        | 2       |
| 4                   | 400  | 405PHB400K2H   | 55                  | 14                                                           | 3.2                                      | 32x33x18           | 27.5   | 1.2    |        | 2       |
| 4                   | 400  | 405PHB400K4H   | 55                  | 18.5                                                         | 2.5                                      | 32x33x18           | 27.5   | 1.2    | 10.2   | 4       |
| 4                   | 600  | 405PHB600K4J   | 55                  | 17.5                                                         | 2.9                                      | 42.5x37x28         | 37.5   | 1.2    | 10.2   | 4       |
| 4                   | 600  | 405PHB600K2J   | 55                  | 14                                                           | 3.6                                      | 42.5x37x28         | 37.5   | 1.2    |        | 2       |
| 4                   | 700  | 405PHB700K2J   | 70                  | 14                                                           | 3.3                                      | 42.5x45x30         | 37.5   | 1.2    |        | 2       |
| 4                   | 700  | 405PHB700K4J   | 70                  | 22.5                                                         | 2.7                                      | 42.5x45x30         | 37.5   | 1.2    | 20.3   | 4       |
| 4                   | 850  | 405PHB850K4R   | 110                 | 25                                                           | 2.5                                      | 57.5x45x30         | 52.5   | 1.2    | 20.3   | 4       |
| 4                   | 850  | 405PHB850K2R   | 110                 | 14                                                           | 3.2                                      | 57.5x45x30         | 52.5   | 1.2    |        | 2       |
| 4.7                 | 250  | 475PHB250K2H   | 40                  | 12                                                           | 3.5                                      | 32x28x14           | 27.5   | 1.2    |        | 2       |
| 4.7                 | 250  | 475PHB250K4H   | 40                  | 15                                                           | 2.8                                      | 32x28x14           | 27.5   | 1.2    | 5.1    | 4       |
| 4.7                 | 330  | 475PHB330K4H   | 45                  | 17                                                           | 2.7                                      | 32x33x18           | 27.5   | 1.2    | 5.1    | 4       |
| 4.7                 | 330  | 475PHB330K2H   | 45                  | 14                                                           | 3.4                                      | 32x33x18           | 27.5   | 1.2    |        | 2       |
| 4.7                 | 400  | 475PHB400K2H   | 55                  | 14                                                           | 2.8                                      | 32x37x22           | 27.5   | 1.2    |        | 2       |
| 4.7                 | 400  | 475PHB400K2J   | 40                  | 13.5                                                         | 3.9                                      | 42.5x28x17         | 37.5   | 1.2    |        | 2       |
| 4.7                 | 400  | 475PHB400K4H   | 55                  | 21.5                                                         | 2.1                                      | 32x37x22           | 27.5   | 1.2    | 10.2   | 4       |
| 4.7                 | 600  | 475PHB600K4J   | 55                  | 22                                                           | 2.6                                      | 42.5x37x28         | 37.5   | 1.2    | 10.2   | 4       |
| 4.7                 | 600  | 475PHB600K2J   | 55                  | 14                                                           | 3.3                                      | 42.5x37x28         | 37.5   | 1.2    |        | 2       |
| 4.7                 | 700  | 475PHB700K2J   | 70                  | 14                                                           | 3.1                                      | 42.5x45x30         | 37.5   | 1.2    |        | 2       |
| 4.7                 | 700  | 475PHB700K4J   | 70                  | 25                                                           | 2.4                                      | 42.5x45x30         | 37.5   | 1.2    | 20.3   | 4       |
| 4.7                 | 850  | 475PHB850K4R   | 110                 | 27                                                           | 2.1                                      | 57.5x45x30         | 52.5   | 1.2    | 20.3   | 4       |
| 4.7                 | 850  | 475PHB850K2R   | 110                 | 14                                                           | 2.8                                      | 57.5x45x30         | 52.5   | 1.2    |        | 2       |
| 5                   | 250  | 505PHB250K2H   | 40                  | 12                                                           | 3.4                                      | 32x28x14           | 27.5   | 1.2    |        | 2       |

# PHB

Metallized Polypropylene,  
High Frequency radial lead  
box

| Capacitance<br>(μF) | WVDC | IC PART NUMBER | dv/dt<br>(V/μ sec.) | Maximum<br>RMS Ripple<br>Current<br>(A)<br>100 kHz,<br>+70°C | Typical<br>ESR (mΩ)<br>100 kHz,<br>+25°C | Dims LxHxT<br>(mm) | S (MM) | d (MM) | P (MM) | # Leads |
|---------------------|------|----------------|---------------------|--------------------------------------------------------------|------------------------------------------|--------------------|--------|--------|--------|---------|
| 5                   | 250  | 505PHB250K4H   | 40                  | 15                                                           | 2.7                                      | 32x28x14           | 27.4   | 1.2    | 5.1    | 4       |
| 5                   | 330  | 505PHB330K4H   | 45                  | 17.5                                                         | 2.6                                      | 32x33x18           | 27.5   | 1.2    | 5.1    | 4       |
| 5                   | 330  | 505PHB330K2H   | 45                  | 14                                                           | 3.3                                      | 32x33x18           | 27.5   | 1.2    |        | 2       |
| 5                   | 400  | 505PHB400K4H   | 55                  | 22                                                           | 2.1                                      | 32x37x22           | 27.5   | 1.2    | 10.2   | 4       |
| 5                   | 400  | 505PHB400K2H   | 55                  | 14                                                           | 2.8                                      | 32x37x22           | 27.5   | 1.2    |        | 2       |
| 5                   | 400  | 505PHB400K2J   | 40                  | 14                                                           | 3.7                                      | 42.5x30x22         | 37.5   | 1.2    |        | 2       |
| 5                   | 600  | 505PHB600K2J   | 55                  | 14                                                           | 3.3                                      | 42.5x37x28         | 37.5   | 1.2    |        | 2       |
| 5                   | 600  | 505PHB600K4J   | 55                  | 22.5                                                         | 2.6                                      | 42.5x37x28         | 37.5   | 1.2    | 10.2   | 4       |
| 5                   | 700  | 505PHB700K2J   | 70                  | 14                                                           | 3                                        | 42.5x45x30         | 37.5   | 1.2    |        | 2       |
| 5                   | 700  | 505PHB700K4J   | 70                  | 25.5                                                         | 2.3                                      | 42.5x45x30         | 37.5   | 1.2    | 20.3   | 4       |
| 5.6                 | 850  | 565PHB850K4R   | 110                 | 27                                                           | 2                                        | 57.5x50x35         | 52.5   | 1.2    | 20.3   | 4       |
| 5.6                 | 850  | 565PHB850K2R   | 110                 | 14                                                           | 2.7                                      | 57.5x50x35         | 52.5   | 1.2    |        | 2       |
| 6                   | 700  | 605PHB700K2R   | 40                  | 14                                                           | 5                                        | 57.5x45x30         | 52.5   | 1.2    |        | 2       |
| 6                   | 700  | 605PHB700K4R   | 40                  | 20                                                           | 4.3                                      | 57.5x45x30         | 52.5   | 1.2    | 20.3   | 4       |
| 6                   | 850  | 605PHB850K4R   | 110                 | 27                                                           | 2                                        | 57.5x50x35         | 52.5   | 1.2    | 20.3   | 4       |
| 6                   | 850  | 605PHB850K2R   | 110                 | 14                                                           | 2.6                                      | 57.5x50x35         | 52.5   | 1.2    |        | 2       |
| 6.8                 | 250  | 685PHB250K2H   | 40                  | 14                                                           | 3.1                                      | 32x33x18           | 27.5   | 1.2    |        | 2       |
| 6.8                 | 250  | 685PHB250K4H   | 40                  | 18                                                           | 2.4                                      | 32x33x18           | 27.5   | 1.2    | 5.1    | 4       |
| 6.8                 | 330  | 685PHB330K2H   | 45                  | 14                                                           | 2.8                                      | 32x37x22           | 27.5   | 1.2    |        | 2       |
| 6.8                 | 330  | 685PHB330K2J   | 30                  | 14                                                           | 3.7                                      | 42.5x28x17         | 37.5   | 1.2    |        | 2       |
| 6.8                 | 330  | 685PHB330K4H   | 45                  | 22                                                           | 2.1                                      | 32x37x22           | 27.5   | 1.2    | 10.2   | 4       |
| 6.8                 | 400  | 685PHB400K4J   | 40                  | 19.5                                                         | 2.6                                      | 42.5x37x28         | 37.5   | 1.2    | 10.2   | 4       |
| 6.8                 | 400  | 685PHB400K2J   | 40                  | 14                                                           | 3.3                                      | 42.5x30x22         | 37.5   | 1.2    |        | 2       |
| 6.8                 | 600  | 685PHB600K2J   | 55                  | 14                                                           | 2.8                                      | 42.5x45x30         | 37.5   | 1.2    |        | 2       |
| 6.8                 | 600  | 685PHB600K4J   | 55                  | 25.5                                                         | 2.1                                      | 42.5x45x30         | 37.5   | 1.2    | 20.3   | 4       |
| 6.8                 | 700  | 685PHB700K4R   | 40                  | 21.5                                                         | 4                                        | 57.5x45x30         | 52.5   | 1.2    | 20.3   | 4       |
| 6.8                 | 700  | 685PHB700K2R   | 40                  | 14                                                           | 4.7                                      | 57.5x45x30         | 52.5   | 1.2    |        | 2       |
| 8                   | 700  | 805PHB700K2R   | 40                  | 14                                                           | 4.4                                      | 57.5x50x35         | 52.5   | 1.2    |        | 2       |
| 8                   | 700  | 805PHB700K4R   | 40                  | 23.5                                                         | 3.7                                      | 57.5x50x35         | 52.5   | 1.2    | 20.3   | 4       |
| 9                   | 600  | 905PHB600K4J   | 55                  | 27                                                           | 1.9                                      | 42.5x45x30         | 37.5   | 1.2    | 20.3   | 4       |
| 9                   | 600  | 905PHB600K2J   | 55                  | 14                                                           | 2.6                                      | 42.5x45x30         | 37.5   | 1.2    |        | 2       |
| 9                   | 700  | 905PHB700K2R   | 40                  | 14                                                           | 4.1                                      | 57.5x50x35         | 52.5   | 1.2    |        | 2       |
| 9                   | 700  | 905PHB700K4R   | 40                  | 25                                                           | 3.4                                      | 57.5x50x35         | 52.5   | 1.2    | 20.3   | 4       |
| 10                  | 250  | 106PHB250K2H   | 40                  | 20.5                                                         | 2.6                                      | 32x33x18           | 27.5   | 1.2    |        | 2       |
| 10                  | 250  | 106PHB250K2J   | 25                  | 14                                                           | 3.6                                      | 42.5x28x17         | 37.5   | 1.2    |        | 2       |
| 10                  | 250  | 106PHB250K4H   | 40                  | 20.5                                                         | 1.9                                      | 32x33x18           | 27.5   | 1.2    | 10.2   | 4       |
| 10                  | 400  | 106PHB400K4J   | 40                  | 24.5                                                         | 2.1                                      | 42.5x37x28         | 37.5   | 1.2    | 20.3   | 4       |
| 10                  | 400  | 106PHB400K2J   | 40                  | 14                                                           | 2.8                                      | 42.5x37x28         | 37.5   | 1.2    |        | 2       |
| 10                  | 600  | 106PHB600K2R   | 30                  | 14                                                           | 4.5                                      | 57.5x45x30         | 52.5   | 1.2    |        | 2       |
| 10                  | 600  | 106PHB600K4R   | 30                  | 22                                                           | 3.8                                      | 57.5x45x30         | 52.5   | 1.2    | 20.3   | 4       |
| 15                  | 250  | 156PHB250K2J   | 25                  | 14                                                           | 3.1                                      | 42.5x30x22         | 37.5   | 1.2    |        | 2       |
| 15                  | 330  | 156PHB330K2J   | 30                  | 14                                                           | 2.7                                      | 42.5x37x28         | 37.5   | 1.2    |        | 2       |
| 15                  | 330  | 156PHB330K4J   | 30                  | 26                                                           | 2                                        | 42.5x37x28         | 37.5   | 1.2    | 10.2   | 4       |
| 15                  | 400  | 156PHB400K4J   | 40                  | 27                                                           | 1.7                                      | 42.5x45x30         | 37.5   | 1.2    | 20.3   | 4       |
| 15                  | 400  | 156PHB400K2J   | 40                  | 14                                                           | 2.4                                      | 42.5x45x30         | 37.5   | 1.2    |        | 2       |
| 15                  | 600  | 156PHB600K2R   | 30                  | 14                                                           | 3.7                                      | 57.5x50x35         | 52.5   | 1.2    |        | 2       |
| 15                  | 600  | 156PHB600K4R   | 30                  | 25                                                           | 3                                        | 57.5x50x35         | 52.5   | 1.2    | 20.3   | 4       |
| 20                  | 250  | 206PHB250K2J   | 25                  | 14                                                           | 2.8                                      | 42.5x37x28         | 37.5   | 1.2    |        | 2       |
| 20                  | 250  | 206PHB250K4J   | 25                  | 24                                                           | 2.1                                      | 42.5x37x28         | 37.5   | 1.2    | 10.2   | 4       |
| 20                  | 330  | 206PHB330K4J   | 30                  | 27                                                           | 1.8                                      | 42.5x45x30         | 37.5   | 1.2    | 20.3   | 4       |
| 20                  | 330  | 206PHB330K2J   | 30                  | 14                                                           | 2.5                                      | 42.5x45x30         | 37.5   | 1.2    |        | 2       |
| 20                  | 400  | 206PHB400K4R   | 20                  | 24.5                                                         | 3                                        | 57.5x45x30         | 52.5   | 1.2    | 20.3   | 4       |
| 20                  | 400  | 206PHB400K2R   | 20                  | 14                                                           | 3.7                                      | 57.5x45x30         | 52.5   | 1.2    |        | 2       |
| 22                  | 250  | 226PHB250K2J   | 25                  | 14                                                           | 2.8                                      | 42.5x37x28         | 37.5   | 1.2    |        | 2       |
| 22                  | 250  | 226PHB250K4J   | 25                  | 25                                                           | 2.1                                      | 42.5x37x28         | 37.5   | 1.2    | 10.2   | 4       |
| 22                  | 400  | 226PHB400K4R   | 20                  | 25.5                                                         | 2.9                                      | 57.5x50x35         | 52.5   | 1.2    | 20.3   | 4       |
| 22                  | 400  | 226PHB400K2R   | 20                  | 14                                                           | 3.6                                      | 57.5x50x35         | 52.5   | 1.2    |        | 2       |
| 25                  | 250  | 256PHB250K4J   | 25                  | 26.5                                                         | 1.9                                      | 42.5x37x28         | 37.5   | 1.2    | 20.3   | 4       |

# PHB

Metallized Polypropylene,  
High Frequency radial lead  
box

| Capacitance<br>(μF) | WVDC | IC PART NUMBER | dv/dt<br>(v/μ sec.) | Maximum<br>RMS Ripple<br>Current<br>(A)<br>100 kHz,<br>+70°C | Typical<br>ESR (mΩ)<br>100 kHz,<br>+25°C | Dims LxHxT<br>(mm) | S (MM) | d (MM) | P (MM) | # Leads |
|---------------------|------|----------------|---------------------|--------------------------------------------------------------|------------------------------------------|--------------------|--------|--------|--------|---------|
| 25                  | 250  | 256PHB250K2J   | 25                  | 14                                                           | 2.6                                      | 42.5x37x28         | 37.5   | 1.2    |        | 2       |
| 25                  | 330  | 256PHB330K2R   | 17                  | 14                                                           | 3.6                                      | 57.5x45x30         | 52.5   | 1.2    |        | 2       |
| 25                  | 330  | 256PHB330K4R   | 17                  | 23                                                           | 2.9                                      | 57.5x45x30         | 52.5   | 1.2    | 20.3   | 4       |
| 25                  | 400  | 256PHB400K4R   | 20                  | 26                                                           | 2.8                                      | 57.5x50x35         | 52.5   | 1.2    | 20.3   | 4       |
| 25                  | 400  | 256PHB400K2R   | 20                  | 14                                                           | 3.4                                      | 57.5x50x35         | 52.5   | 1.2    |        | 2       |
| 30                  | 250  | 306PHB250K2J   | 25                  | 14                                                           | 2.6                                      | 42.5x45x30         | 37.5   | 1.2    |        | 2       |
| 30                  | 250  | 306PHB250K4J   | 25                  | 26.5                                                         | 1.9                                      | 42.5x45x30         | 37.5   | 1.2    | 20.3   | 4       |
| 30                  | 330  | 306PHB330K2R   | 17                  | 14                                                           | 3.4                                      | 57.5x45x30         | 52.5   | 1.2    |        | 2       |
| 30                  | 330  | 306PHB330K4R   | 17                  | 24.5                                                         | 2.7                                      | 57.5x45x30         | 52.5   | 1.2    | 20.3   | 4       |
| 33                  | 250  | 336PHB250K2J   | 25                  | 14                                                           | 2.4                                      | 42.5x45x30         | 37.5   | 1.2    |        | 2       |
| 33                  | 250  | 336PHB250K4J   | 25                  | 27                                                           | 1.7                                      | 42.5x45x30         | 37.5   | 1.2    | 20.3   | 4       |
| 33                  | 330  | 336PHB330K2R   | 17                  | 14                                                           | 3.3                                      | 57.5x50x35         | 52.5   | 1.2    |        | 2       |
| 33                  | 330  | 336PHB330K4R   | 17                  | 26                                                           | 2.6                                      | 57.5x50x35         | 52.5   | 1.2    | 20.3   | 4       |
| 35                  | 330  | 356PHB330K4R   | 17                  | 22                                                           | 2.6                                      | 57.5x50x35         | 52.5   | 1.2    | 20.3   | 4       |
| 35                  | 330  | 356PHB330K2R   | 17                  | 12                                                           | 3.2                                      | 57.5x50x35         | 52.5   | 1.2    |        | 2       |
| 40                  | 250  | 406PHB250K4R   | 15                  | 26                                                           | 2.6                                      | 57.5x45x30         | 52.5   | 1.2    | 20.3   | 4       |
| 40                  | 250  | 406PHB250K2R   | 15                  | 14                                                           | 3.3                                      | 57.5x45x30         | 52.5   | 1.2    |        | 2       |
| 40                  | 330  | 406PHB330K4R   | 17                  | 27                                                           | 2.4                                      | 57.5x50x35         | 52.5   | 1.2    | 20.3   | 4       |
| 40                  | 330  | 406PHB330K2R   | 17                  | 14                                                           | 3.1                                      | 57.5x50x35         | 52.5   | 1.2    |        | 2       |
| 50                  | 250  | 506PHB250K4R   | 15                  | 26.5                                                         | 2.3                                      | 57.5x50x35         | 52.5   | 1.2    | 20.3   | 4       |
| 50                  | 250  | 506PHB250K2R   | 15                  | 14                                                           | 3                                        | 57.5x50x35         | 52.5   | 1.2    |        | 2       |
| 60                  | 250  | 606PHB250K2R   | 15                  | 14                                                           | 2.7                                      | 57.5x50x35         | 52.5   | 1.2    |        | 2       |
| 60                  | 250  | 606PHB250K4R   | 15                  | 27                                                           | 2                                        | 57.5x50x35         | 52.5   | 1.2    | 20.3   | 4       |

# Mouser Electronics

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| <a href="#"><u>905PHB600K2J</u></a> | <a href="#"><u>336PHB250K4J</u></a> | <a href="#"><u>684PHB700K2H</u></a> | <a href="#"><u>335PHB400K2H</u></a> | <a href="#"><u>255PHB850K4J</u></a> | <a href="#"><u>685PHB400K2J</u></a> |
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| <a href="#"><u>335PHB600K2J</u></a> | <a href="#"><u>305PHB600K2H</u></a> | <a href="#"><u>474PHB600K2H</u></a> | <a href="#"><u>684PHB600K2H</u></a> | <a href="#"><u>505PHB600K2J</u></a> | <a href="#"><u>405PHB250K2H</u></a> |
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| <a href="#"><u>156PHB400K2J</u></a> | <a href="#"><u>256PHB400K2R</u></a> | <a href="#"><u>405PHB400K2H</u></a> | <a href="#"><u>905PHB600K4J</u></a> | <a href="#"><u>154PHB850K2H</u></a> | <a href="#"><u>505PHB700K2J</u></a> |
| <a href="#"><u>605PHB850K4R</u></a> | <a href="#"><u>606PHB250K4R</u></a> | <a href="#"><u>105PHB600K2H</u></a> | <a href="#"><u>405PHB400K4H</u></a> | <a href="#"><u>105PHB850K4H</u></a> | <a href="#"><u>155PHB700K2J</u></a> |
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| <a href="#"><u>685PHB250K2H</u></a> | <a href="#"><u>205PHB700K2H</u></a> | <a href="#"><u>305PHB600K4H</u></a> | <a href="#"><u>474PHB850K2H</u></a> | <a href="#"><u>225PHB600K2H</u></a> | <a href="#"><u>255PHB400K2H</u></a> |
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