

PHC

Metallized Polypropylene Film Capacitors for Switching Circuits



- Switching capacitor for industrial controls
- Motor speed control
- SMPS
- High end audio
- Resonant circuits
- Induction heaters
- High frequency electronic ballasts

| | | | | | | | |
|---|------|--|-------|------------|--------|------|------|
| Operating Temperature Range | | -40°C to +85°C | | | | | |
| Capacitance Tolerance | | +/- 10% at 1kHz, 20°C | | | | | |
| Rated Voltage | WVDC | 250 | 330 | 400 | 600 | 700 | 850 |
| | SVDC | 400 | 500 | 600 | 800 | 1000 | 1200 |
| | VAC | 160 | 200 | 250 | 330 | 400 | 450 |
| Dissipation Factor (max) at 20°C. | | Freq (kHz) | C≤5μF | 5μF<C≤30μF | C>30μF | | |
| | | 1 | .06% | .1% | .15% | | |
| Insulation Resistance @20°C(<70% RH) for 1 minute at 100VDC | | > 30,000MΩ x μF not to exceed 30,000MΩ | | | | | |
| Peak Current - I_{PEAK} (Non-repetitive) | | I _{PEAK} = 1.5°C*dv/dt Maximum | | | | | |
| Dielectric Strength | | 200% of rated WVDC for 10 seconds at 20°C between leads. 3KV at 60Hz for 60 seconds between leads and case. | | | | | |
| Self inductance | | <1nH/mm of body length and lead wire length. | | | | | |
| Capacitance drift | | <1.0% up to 40°C after 2 years | | | | | |
| Temperature Coefficient | | -200ppm/°C +/- 100ppm/°C | | | | | |
| Life Expectancy <small>Capacitance change (typical) -5%</small> | | ≥30,000 hours @VAC at 70°C ≥100,000 hours @WVDC at 70°C | | | | | |
| Failure rate | | 300/billion component hours | | | | | |
| Dielectric | | Polypropylene | | | | | |
| Electrodes | | Vacuum deposited metal layers | | | | | |
| Construction | | Metallized film with internal series connections for VDC = 850VDC | | | | | |
| Leads | | Tinned copper wire leads. | | | | | |
| Coating | | Flame retardant polyester tape wrap (UL 510) with epoxy end fills (UL94V-0) | | | | | |



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PHYSICAL DIMENSIONS

| WVDC (VAC) μF | 250 (160) | 330 (200) | 400 (250) | 600 (330) | 700 (400) | 850 (450) |
|---------------------|--------------------|---------------------------|-------------------------|-----------------------------|-----------------------------|-----------------------------|
| 0.1 | | | | | | 11.5x29 |
| 0.15 | | | | | | 12x34 13x29 |
| 0.22 | | | | | 11.5x34 12.5x29 | 13.5x34 15x29 |
| 0.33 | | | | 12x29 | 13.5x34 15x29 | 16x34 17.5x29 |
| 0.47 | | | 11x29 | 12.5x34 13.5x29 | 15.5x34 17x29 | 18.5x34 |
| 0.68 | | 11x29 | 12x34 13x29 | 14x34 16x29 | 17.5x34 | 18x46 21.5x34 |
| 1 | 11x29 | 12.5x29 | 13x34 15x29 | 17.5x34 | 18x46 21.5x34 | 21.5x46 26x34 |
| 1.2 | | | | | 20x46 24x34 | |
| 1.5 | 13x29 | 13.5x34 15x29 | 15.5x34 17.5x29 | 20x34 | 21.5x46 | 25.5x46 |
| 2 | 12.5x34 14.5x29 | 15x34 16.5x29 | 17.5x34 | 20x46 25x34 | 24.5x46 | 29x46 |
| 2.2 | 13x34 15x29 | 15.5x34 17.5x29 | 18.5x34 | 21x46 24x34 | 25.5x46 | 25x59 26.5x55 30x46 |
| 2.5 | 14x34 15.5x29 | 16.5x34 | 19x34 | 22x46 | 27x46 | 26.5x59 28x55 32x46 |
| 3 | 15x34 17x29 | 18.5x34 | 21x34 | 24x46 | 29x46 | 29x59 30.5x55 34.5x46 |
| 3.3 | 15.5x34 | 19x34 | 19x46 22x34 | 25x46 | 30.5x46 | 30x59 32x55 |
| 4 | 17x34 | 20.5x34 | 20.5x46 24x34 | 27x46 | 27.5x59 29x55 33.5x46 | 33x59 35x55 |
| 4.7 | 18x34 | 19x46 22x34 | 22x46 | 24.5x59 26.5x55 29x46 | 29.5x59 31x55 | 33.5x59 37x55 |
| 5 | 18.5x34 | 19.5x46 22.5x34 | 22.5x46 | 25x59 27x55 29.5x46 | 30.5x59 32x55 | 36.5x59 38x55 |
| 5.6 | | | | | | 40.5x55 |
| 6.8 | 21x34 | 22x46 | 26x46 | 28.5x59 30x55 | 35x59 38x55 | 41.5x59 |
| 8.2 | | | | | 38x59 41x55 | |
| 10 | 24x34 27.5x46 | 26x46 | 26x59 27x55 31x46 | 33.5x59 35x55 | 41.5x55 | |
| 12.5 | | | | 37.5x59 42.9x55 | | |
| 15 | 25.5x46 | 26.5x59 28x55 37x46 | 33x55 | 39x57 41x59 | | |
| 20 | 22x29 | 30x59 31.5x55 | 35x59 37x55 | | | |

Convert to inches, divide by 25.4

DxL(mm)

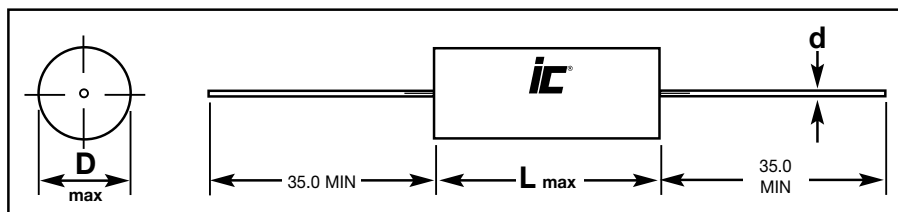


PHYSICAL DIMENSIONS

| μF \diagdown WVDC (VAC) | 250 (160) | 330 (200) | 400 (250) | 600 (330) | 700 (400) | 850 (450) |
|--|------------------|--------------------|------------------|--------------|--------------|--------------|
| 22 | 30.5x46 | 31x59 33x55 | 37x59 39x55 | | | |
| 25 | 32x46 | 33x59 35x55 | 39x59 41.5x55 | | | |
| 30 | 29.5x59 31x55 | 36x59 38x55 | | | | |
| 33 | 31x59 32.5x55 | 37.5x59 39.5x55 | | | | |
| 35 | → | 38.5x59 41x55 | | | | |
| 40 | 33.5x59 36x55 | 41x59 | | | | |
| 50 | 37x59 40x55 | | | | | |
| 60 | 40x59 | | | | | |

Convert to inches, divide by 25.4

DxL(mm)



| D | d |
|-------------|-----|
| ≤14 | 0.8 |
| 14 < D ≤ 23 | 1.0 |
| >23 | 1.2 |

STANDARD PART LISTING

| Capacitance (µF) | WVDC | IC [®] PART NUMBER | dv/dt (v/µs) | Maximum RMS Current @100 kHz, +70°C in Amps | Typical ESR @100 kHz, +25°C in mΩ | Dimensions DxL (mm) |
|------------------|------|-----------------------------|--------------|---|-----------------------------------|---------------------|
| 0.1 | 850 | 104PHC850KG | 375 | 3.5 | 12.9 | 11.5x29 |
| 0.15 | 850 | 154PHC850K | 300 | 4.5 | 10.8 | 12x34 |
| 0.15 | 850 | 154PHC850KG | 375 | 4.5 | 9.8 | 13x29 |
| 0.22 | 700 | 224PHC700KJ | 105 | 3.5 | 11.0 | 11.5x34 |
| 0.22 | 700 | 224PHC700KG | 135 | 3.5 | 10.2 | 12.5x29 |
| 0.22 | 850 | 224PHC850K | 300 | 5.5 | 8.4 | 13.5x34 |
| 0.22 | 850 | 224PHC850KG | 375 | 5.5 | 7.7 | 15x29 |
| 0.33 | 600 | 334PHC600KG | 95 | 4 | 9.0 | 12x29 |
| 0.33 | 700 | 334PHC700KJ | 105 | 4.5 | 8.9 | 13.5x34 |
| 0.33 | 700 | 334PHC700KG | 135 | 4.5 | 8.1 | 15x29 |
| 0.33 | 850 | 334PHC850K | 300 | 7 | 6.6 | 16x34 |
| 0.33 | 850 | 334PHC850KG | 375 | 7 | 5.9 | 17.5x29 |
| 0.47 | 400 | 474PHC400K | 75 | 4 | 8.2 | 11x29 |
| 0.47 | 600 | 474PHC600K | 75 | 5 | 8.9 | 12.5x34 |
| 0.47 | 600 | 474PHC600KG | 95 | 5 | 7.9 | 13.5x29 |
| 0.47 | 700 | 474PHC700KG | 105 | 6.5 | 7.3 | 15.5x34 |
| 0.47 | 700 | 474PHC700K | 135 | 6.5 | 6.6 | 17x29 |
| 0.47 | 850 | 474PHC850K | 300 | 9 | 5.4 | 18.5x34 |
| 0.68 | 330 | 684PHC330KG | 60 | 4.5 | 8.7 | 11x29 |
| 0.68 | 400 | 684PHC400K | 55 | 5.5 | 8.5 | 12x34 |
| 0.68 | 400 | 684PHC400KG | 75 | 5.5 | 6.7 | 13x29 |
| 0.68 | 600 | 684PHC600K | 75 | 6 | 7.4 | 14x34 |
| 0.68 | 600 | 684PHC600KG | 95 | 6 | 6.5 | 16x29 |
| 0.68 | 700 | 684PHC700K | 105 | 8 | 5.7 | 17.5x34 |
| 0.68 | 850 | 684PHC850KN | 200 | 9 | 5.4 | 18x46 |
| 0.68 | 850 | 684PHC850K | 300 | 9 | 4.3 | 21.5x34 |
| 1 | 250 | 105PHC250K | 50 | 4.5 | 7.2 | 11x29 |
| 1 | 330 | 105PHC330KG | 60 | 5.5 | 6.6 | 12.5x29 |
| 1 | 400 | 105PHC400K | 55 | 6 | 6.4 | 13x34 |
| 1 | 400 | 105PHC400KG | 75 | 6 | 5.5 | 15x29 |
| 1 | 600 | 105PHC600K | 75 | 8 | 5.8 | 17.5x34 |
| 1 | 700 | 105PHC700KN | 70 | 9 | 6.3 | 18x46 |
| 1 | 700 | 105PHC700K | 150 | 9 | 4.3 | 21.5x34 |
| 1 | 850 | 105PHC850K | 200 | 9 | 4.3 | 21.5x46 |
| 1 | 850 | 105PHC850KJ | 300 | 12 | 3.2 | 26x34 |
| 1.2 | 700 | 125PHC700KN | 70 | 9 | 6.0 | 20x46 |
| 1.2 | 700 | 125PHC700K | 105 | 9 | 3.7 | 24x34 |
| 1.5 | 250 | 155PHC250K | 50 | 5 | 5.8 | 13x29 |
| 1.5 | 330 | 155PHC330KJ | 45 | 6 | 6.0 | 13.5x34 |
| 1.5 | 330 | 155PHC330KG | 60 | 6.5 | 5.3 | 15x29 |
| 1.5 | 400 | 155PHC400K | 55 | 7 | 5.3 | 15.5x34 |
| 1.5 | 400 | 155PHC400KG | 75 | 7 | 4.5 | 17.5x29 |
| 1.5 | 600 | 155PHC600K | 75 | 9 | 4.7 | 20x34 |
| 1.5 | 700 | 155PHC700K | 70 | 9 | 5.3 | 21.5x46 |
| 1.5 | 850 | 155PHC850K | 200 | 12 | 3.5 | 25.5x46 |
| 2 | 250 | 205PHC250KG | 40 | 5 | 5.7 | 12.5x34 |
| 2 | 250 | 205PHC250K | 50 | 5.5 | 4.9 | 14.5x29 |

| Capacitance (µF) | WVDC | IC [®] PART NUMBER | dv/dt (v/µs) | Maximum RMS Current @100 kHz, +70°C in Amps | Typical ESR @100 kHz, +25°C in mΩ | Dimensions DxL (mm) |
|------------------|------|-----------------------------|--------------|---|-----------------------------------|---------------------|
| 2 | 330 | 205PHC330KJ | 45 | 7.0 | 4.5 | 15x34 |
| 2 | 330 | 205PHC330KG | 60 | 7.0 | 4.5 | 16.5x29 |
| 2 | 400 | 205PHC400K | 55 | 9.0 | 4.4 | 17.5x34 |
| 2 | 600 | 205PHC600KJ | 75 | 9.0 | 3.9 | 23x34 |
| 2 | 600 | 205PHC600K | 70 | 12.0 | 4.5 | 24.5x46 |
| 2 | 700 | 205PHC700K | 70 | 12.0 | 4.6 | 22.5x46 |
| 2 | 850 | 205PHC850K | 200 | 12.0 | 2.9 | 29x46 |
| 2.2 | 250 | 225PHC250K | 40 | 6.0 | 5.4 | 13x34 |
| 2.2 | 250 | 225PHC250KG | 50 | 6.5 | 4.8 | 15x29 |
| 2.2 | 330 | 225PHC330KJ | 45 | 7.0 | 5.1 | 15.5x34 |
| 2.2 | 330 | 225PHC330KG | 60 | 7.0 | 4.1 | 17.5x29 |
| 2.2 | 400 | 225PHC400K | 55 | 9.0 | 4.2 | 18.5x34 |
| 2.2 | 600 | 225PHC600K | 55 | 9.0 | 4.6 | 21x46 |
| 2.2 | 600 | 225PHC600KJ | 75 | 9.0 | 3.6 | 24x34 |
| 2.2 | 700 | 225PHC700K | 70 | 12.0 | 4.3 | 25.5x46 |
| 2.2 | 850 | 225PHC850KS | 110 | 12.0 | 4.3 | 25x59 |
| 2.2 | 850 | 225PHC850KR | 125 | 12.0 | 3.8 | 26.5x55 |
| 2.2 | 850 | 225PHC850KS | 200 | 12.0 | 2.9 | 30x46 |
| 2.5 | 250 | 255PHC250K | 40 | 7.0 | 5.1 | 14x34 |
| 2.5 | 250 | 255PHC250KG | 50 | 7.0 | 4.5 | 15.5x29 |
| 2.5 | 330 | 255PHC330KJ | 45 | 8.0 | 4.8 | 16.5x34 |
| 2.5 | 400 | 255PHC400K | 55 | 9.0 | 4.0 | 19x34 |
| 2.5 | 600 | 255PHC600K | 55 | 9.0 | 4.4 | 22x46 |
| 2.5 | 700 | 255PHC700K | 70 | 12.0 | 4.0 | 27x46 |
| 2.5 | 850 | 255PHC850KS | 110 | 12.0 | 4.1 | 28.5x59 |
| 2.5 | 850 | 255PHC850KR | 125 | 12.0 | 3.6 | 28x55 |
| 2.5 | 850 | 255PHC850K | 200 | 12.0 | 2.7 | 32x46 |
| 3 | 250 | 305PHC250K | 40 | 7.0 | 4.6 | 15x34 |
| 3 | 250 | 305PHC250KG | 50 | 7.0 | 4.2 | 17x29 |
| 3 | 330 | 305PHC330KJ | 45 | 9.0 | 4.2 | 18.5x34 |
| 3 | 400 | 305PHC400K | 55 | 9.0 | 3.6 | 21x34 |
| 3 | 600 | 305PHC600K | 55 | 9.0 | 4.0 | 24x46 |
| 3 | 700 | 305PHC700K | 70 | 12.0 | 6.1 | 27x44 |
| 3 | 850 | 305PHC850KS | 110 | 12.0 | 3.6 | 29x59 |
| 3 | 850 | 305PHC850KR | 125 | 12.0 | 3.2 | 30.5x55 |
| 3 | 850 | 305PHC850K | 200 | 12.0 | 2.4 | 34.5x46 |
| 3.3 | 250 | 335PHC250K | 40 | 7.0 | 4.2 | 15.5x34 |
| 3.3 | 330 | 335PHC330KJ | 45 | 9.0 | 4.1 | 19x34 |
| 3.3 | 400 | 335PHC400KN | 40 | 9.0 | 4.1 | 19x46 |
| 3.3 | 400 | 335PHC400K | 55 | 9.0 | 3.5 | 22x34 |
| 3.3 | 600 | 335PHC600K | 55 | 9.0 | 3.8 | 25x46 |
| 3.3 | 700 | 335PHC700K | 70 | 12.0 | 5.9 | 30.5x46 |
| 3.3 | 850 | 335PHC850KS | 110 | 12.0 | 3.5 | 30x59 |
| 3.3 | 850 | 335PHC850K | 125 | 12.0 | 3.1 | 32x56 |
| 4 | 250 | 405PHC250K | 40 | 9.0 | 3.6 | 17x34 |
| 4 | 330 | 405PHC330KJ | 45 | 9.0 | 3.6 | 20.5x34 |
| 4 | 400 | 405PHC400K | 40 | 9.0 | 3.7 | 20.5x46 |



STANDARD PART LISTING

| Capacitance (µF) | WVDC | IC [®] PART NUMBER | dv/dt (v/µs) | Maximum RMS Current @100 kHz, +70°C in Amps | Typical ESR @100 kHz, +25°C in mΩ | Dimensions DxL (mm) |
|------------------|------|-----------------------------|--------------|---|-----------------------------------|---------------------|
| 4 | 400 | 405PHC400KJ | 55 | 9 | 3.1 | 24x34 |
| 4 | 600 | 405PHC600K | 55 | 12 | 3.4 | 27x46 |
| 4 | 700 | 405PHC700K | 70 | 12 | 5.4 | 33.5x46 |
| 4 | 700 | 405PHC700KR | 60 | 12 | 6.7 | 29x55 |
| 4 | 700 | 405PHC700KS | 45 | 12 | 7.7 | 27.5x57 |
| 4 | 850 | 405PHC850K | 125 | 12 | 2.8 | 35x55 |
| 4 | 850 | 405PHC850KS | 110 | 12 | 3.1 | 33x59 |
| 4 | 850 | 405PHC850KJ | 40 | 9 | 3.3 | 31x57 |
| 4.7 | 250 | 475PHC250KJ | 40 | 9 | 3.3 | 18x34 |
| 4.7 | 330 | 475PHC330KN | 30 | 9 | 4.0 | 19x46 |
| 4.7 | 330 | 475PHC330KJ | 45 | 9 | 3.1 | 22x34 |
| 4.7 | 400 | 475PHC400K | 40 | 9 | 7.7 | 22x46 |
| 4.7 | 600 | 475PHC600KS | 40 | 12 | 8.6 | 24.5x59 |
| 4.7 | 600 | 475PHC600KR | 50 | 12 | 7.7 | 26.5x55 |
| 4.7 | 600 | 475PHC600K | 55 | 12 | 6.4 | 29x46 |
| 4.7 | 700 | 475PHC700KS | 45 | 12 | 7.0 | 29.5x59 |
| 4.7 | 700 | 475PHC700K | 60 | 12 | 6.1 | 31x55 |
| 4.7 | 850 | 475PHC850KS | 110 | 12 | 2.8 | 35.5x59 |
| 4.7 | 850 | 475PHC850K | 125 | 12 | 2.5 | 37x55 |
| 5 | 250 | 505PHC250K | 40 | 9 | 3.2 | 18.5x34 |
| 5 | 330 | 505PHC330KN | 30 | 9 | 3.9 | 19.5x46 |
| 5 | 330 | 505PHC330KJ | 45 | 9 | 3.0 | 21.5x34 |
| 5 | 400 | 505PHC400K | 40 | 9 | 7.5 | 22.5x46 |
| 5 | 600 | 505PHC600KS | 40 | 11.5 | 8.3 | 25x59 |
| 5 | 600 | 505PHC600K | 50 | 12 | 7.4 | 27x55 |
| 5 | 600 | 505PHC600KN | 55 | 12 | 6.3 | 29.5x46 |
| 5 | 700 | 505PHC700KS | 45 | 12 | 6.6 | 30.5x59 |
| 5 | 700 | 505PHC700K | 60 | 12 | 5.8 | 32x55 |
| 5 | 850 | 505PHC850KS | 110 | 12 | 2.7 | 36.5x59 |
| 5 | 850 | 505PHC850K | 125 | 12 | 2.4 | 38x55 |
| 5.6 | 850 | 565PHC850K | 125 | 12 | 2.1 | 40.5x55 |
| 6.8 | 250 | 685PHC250K | 40 | 9 | 2.9 | 21x34 |
| 6.8 | 330 | 685PHC330KN | 30 | 9 | 3.4 | 22x46 |
| 6.8 | 400 | 685PHC400K | 40 | 11 | 6.4 | 26x46 |
| 6.8 | 600 | 685PHC600KS | 40 | 12 | 7.3 | 28.5x59 |
| 6.8 | 600 | 685PHC600K | 50 | 12 | 6.5 | 30x55 |
| 6.8 | 700 | 685PHC700KS | 45 | 12 | 5.8 | 35x59 |
| 6.8 | 700 | 685PHC700K | 60 | 12 | 5.1 | 37x55 |
| 6.8 | 850 | 685PHC850KS | 110 | 12 | 2.3 | 41.5x59 |
| 8.2 | 700 | 825PHC700KS | 45 | 12 | 5.3 | 38x59 |
| 8.2 | 700 | 825PHC700K | 60 | 12 | 4.6 | 41x55 |
| 10 | 250 | 106PHC250KN | 25 | 9 | 3.1 | 21.5x46 |
| 10 | 250 | 106PHC250K | 40 | 9 | 2.4 | 24x34 |
| 10 | 330 | 106PHC330KN | 30 | 10 | 6.7 | 26x46 |
| 10 | 400 | 106PHC400KS | 25 | 11 | 7.1 | 26x59 |

| Capacitance (µF) | WVDC | IC [®] PART NUMBER | dv/dt (v/µs) | Maximum RMS Current @100 kHz, +70°C in Amps | Typical ESR @100 kHz, +25°C in mΩ | Dimensions DxL (mm) |
|------------------|------|-----------------------------|--------------|---|-----------------------------------|---------------------|
| 10 | 400 | 106PHC400KON | 40 | 12 | 5.4 | 31x46 |
| 10 | 400 | 106PHC400K | 30 | 12 | 6.3 | 27x55 |
| 10 | 600 | 106PHC600KS | 40 | 12 | 6.1 | 33.5x59 |
| 10 | 600 | 106PHC600K | 50 | 12 | 5.4 | 35x55 |
| 10 | 700 | 106PHC700KS | 45 | 12 | 4.9 | 41.5x59 |
| 12.5 | 600 | 126PHC600KS | 40 | 12 | 5.5 | 37.5x59 |
| 12.5 | 600 | 126PHC600K | 50 | 12 | 4.9 | 40.5x55 |
| 15 | 250 | 156PHC250K | 25 | 12 | 2.6 | 25.5x46 |
| 15 | 330 | 156PHC330KS | 20 | 12 | 6.8 | 26.5x59 |
| 15 | 330 | 156PHC330KR | 25 | 12 | 6.0 | 28x55 |
| 15 | 330 | 156PHC330KN | 30 | 12 | 5.4 | 31x46 |
| 15 | 400 | 156PHC400KS | 25 | 12 | 5.6 | 31x59 |
| 15 | 400 | 156PHC400K | 30 | 12 | 5.0 | 33x55 |
| 15 | 600 | 156PHC600KS | 40 | 12 | 5.1 | 41x59 |
| 20 | 250 | 206PHC250K | 25 | 12 | 5.0 | 29x46 |
| 20 | 330 | 206PHC330KS | 20 | 12 | 5.8 | 30x59 |
| 20 | 330 | 206PHC330KR | 25 | 12 | 5.1 | 31.5x55 |
| 20 | 400 | 206PHC400KS | 25 | 12 | 4.7 | 35x59 |
| 20 | 400 | 206PHC400K | 30 | 12 | 4.3 | 37x55 |
| 22 | 250 | 226PHC250KN | 25 | 12 | 4.7 | 30.5x46 |
| 22 | 330 | 226PHC330KS | 20 | 12 | 5.4 | 31x59 |
| 22 | 330 | 226PHC330KR | 25 | 12 | 4.8 | 33x55 |
| 22 | 400 | 226PHC400KS | 25 | 12 | 4.5 | 37x59 |
| 22 | 400 | 226PHC400KR | 30 | 12 | 4.1 | 39x55 |
| 25 | 250 | 256PHC250K | 25 | 12 | 4.4 | 32x46 |
| 25 | 330 | 256PHC330KS | 20 | 12 | 5.0 | 33x59 |
| 25 | 330 | 256PHC330KR | 25 | 12 | 4.5 | 35x55 |
| 25 | 400 | 256PHC400KS | 25 | 12 | 4.2 | 39x59 |
| 25 | 400 | 256PHC400K | 30 | 12 | 3.8 | 41.5x56 |
| 30 | 250 | 306PHC250KS | 15 | 12 | 5.3 | 29.5x59 |
| 30 | 250 | 306PHC250K | 20 | 12 | 4.5 | 31x55 |
| 30 | 330 | 306PHC330KS | 20 | 12 | 4.5 | 36x59 |
| 30 | 330 | 306PHC330KR | 25 | 12 | 4.1 | 38x55 |
| 33 | 250 | 336PHC250KS | 15 | 12 | 5 | 31x59 |
| 33 | 250 | 336PHC250KR | 20 | 12 | 4.3 | 32.5x55 |
| 33 | 330 | 336PHC330KS | 20 | 12 | 4.3 | 37.5x59 |
| 33 | 330 | 336PHC330KR | 25 | 12 | 3.9 | 39.5x55 |
| 35 | 330 | 356PHC330KS | 20 | 12 | 4.2 | 38.5x59 |
| 35 | 330 | 356PHC330KR | 25 | 12 | 3.8 | 41x55 |
| 40 | 250 | 406PHC250KS | 15 | 12 | 4.5 | 33.5x59 |
| 40 | 250 | 406PHC250K | 20 | 12 | 3.9 | 36x55 |
| 40 | 330 | 406PHC330KS | 20 | 12 | 3.9 | 41x59 |
| 50 | 250 | 506PHC250KS | 15 | 12 | 3.9 | 37x59 |
| 50 | 250 | 506PHC250K | 20 | 12 | 3.5 | 40x55 |
| 60 | 250 | 606PHC250KS | 15 | 12 | 3.5 | 40x59 |