



**THE DATASHEET OF
222MPW400K**





FEATURES

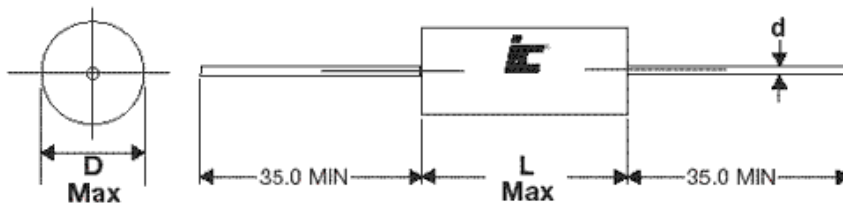
Low ESR - High AC/Ripple Current - Stable with frequency and temperature

APPLICATIONS

Switching Power Supplies - General Purpose - AC Applications (Not across the Line)

| | | | | | |
|---|---|---------------------------------|------------|------------|------------|
| Operating Temperature Range | -55°C to +105°C | | | | |
| Capacitance Tolerance | ±10% at 1 kHz, 25°C +5% optional | | | | |
| AC Voltage | WVDC | 160 | 250 | 400 | 630 |
| | VAC | 90 | 200 | 220 | 250 |
| For T>+85°C , The voltage must be decreased by 1.5% per °C | | | | | |
| Dissipation Factor (MAX) 1 kHz, 25°C | 0.001 | | | | |
| Insulation Resistance @25°C (<70% RH)for 1 minute at 100VDC applied | Capacitance | Insulation Resistance | | | |
| | <0.33µF | 30000 MΩ | | | |
| | >0.33µF | 10000 MΩxµF | | | |
| Load Life | 2000 Hours, +85C with 125% of rated voltage | | | | |
| | Capacitance Change | ≤3% of initially measured value | | | |
| | Dissipation Factor | ≤0.001 at 1kHz and 25°C | | | |
| | 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 body length and lead length | | | | |
| Capacitance Drift Factor | <0.5% after 2 years at 40°C | | | | |
| Capacitance Temperature Coefficient | -200 ppm/°C, ±100ppm/°C | | | | |
| Dielectric Strength | Terminal to Terminal | | | | |
| | 200% of rated VDC or VAC applied for 10 Seconds and 25°C | | | | |
| Dielectric | Polypropylene | | | | |
| Construction | Metallized film | | | | |
| Coating | Flame Retardant Polyester tape wrap (UL 510) with epoxy resin end fills(UL94V0) | | | | |
| Leads | Lead Free Tinned Leads | | | | |

Special Order Options



| Lead Diameter | |
|---------------|-----|
| D | d |
| <8 | 0.6 |
| >8 | 0.8 |

MPW

Metallized Polypropylene Axial Lead

| WVDC | Capacitance (µF) | IC PART NUMBER | dv/dt (v/µ sec.) | Dims DxL (mm) | d (MM) |
|------|------------------|----------------|------------------|---------------|--------|
| 160 | 0.022 | 223MPW160K | 22 | 5.5x11.5 | 0.6 |
| 160 | 0.033 | 333MPW160K | 22 | 5.5x11.5 | 0.6 |
| 160 | 0.047 | 473MPW160K | 22 | 5.5x11.5 | 0.6 |
| 160 | 0.068 | 683MPW160K | 22 | 6.5x14.5 | 0.6 |
| 160 | 0.1 | 104MPW160K | 22 | 6.5x14.5 | 0.6 |
| 160 | 0.15 | 154MPW160K | 22 | 7.5x14.5 | 0.6 |
| 160 | 0.22 | 224MPW160K | 22 | 8x14.5 | 0.6 |
| 160 | 0.33 | 334MPW160K | 18 | 8.5x20.5 | 0.8 |
| 160 | 0.47 | 474MPW160K | 18 | 9.5x20.5 | 0.8 |
| 160 | 0.68 | 684MPW160K | 11 | 10x29 | 0.8 |
| 160 | 1 | 105MPW160K | 11 | 11x29 | 0.8 |
| 160 | 1.5 | 155MPW160K | 11 | 13x29 | 0.8 |
| 160 | 2.2 | 225MPW160K | 8 | 13.5x34 | 0.8 |
| 160 | 3.3 | 335MPW160K | 8 | 16x34 | 0.8 |
| 160 | 4.7 | 475MPW160K | 8 | 18x34 | 0.8 |
| 160 | 6.8 | 685MPW160K | 8 | 18.5x46.5 | 0.8 |
| 160 | 10 | 106MPW160K | 8 | 22.5x46.5 | 1 |
| 250 | 0.015 | 153MPW250K | 12 | 5.5x14.5 | 0.6 |
| 250 | 0.022 | 223MPW250K | 12 | 7x14 | 0.6 |
| 250 | 0.033 | 333MPW250K | 12 | 6.5x14.5 | 0.6 |
| 250 | 0.047 | 473MPW250K | 12 | 6.5x14.5 | 0.6 |
| 250 | 0.068 | 683MPW250K | 12 | 7.5x14.5 | 0.6 |
| 250 | 0.1 | 104MPW250K | 12 | 8.5x14.5 | 0.8 |
| 250 | 0.15 | 154MPW250K | 8 | 8x20.5 | 0.6 |
| 250 | 0.22 | 224MPW250K | 8 | 9.5x20.5 | 0.8 |
| 250 | 0.33 | 334MPW250K | 5 | 10x29 | 0.8 |
| 250 | 0.47 | 474MPW250K | 5 | 11x29 | 0.8 |
| 250 | 0.68 | 684MPW250K | 5 | 12.5x29 | 0.8 |
| 250 | 1 | 105MPW250K | 3 | 13x34 | 0.8 |
| 250 | 1.5 | 155MPW250K | 8 | 16x34 | 0.8 |
| 250 | 2.2 | 225MPW250K | 3 | 19x34 | 0.8 |
| 250 | 3.3 | 335MPW250K | 2 | 17x47 | 0.8 |
| 250 | 4.7 | 475MPW250K | 2 | 22.5x47 | 1 |
| 400 | 0.0015 | 152MPW400K | 15 | 6.5x14.5 | 0.6 |
| 400 | 0.0022 | 222MPW400K | 15 | 5.5x11.5 | 0.6 |
| 400 | 0.0033 | 332MPW400K | 15 | 6.5x14.5 | 0.6 |
| 400 | 0.0047 | 472MPW400K | 15 | 6.5x14.5 | 0.6 |
| 400 | 0.0068 | 682MPW400K | 15 | 5.5x11.5 | 0.6 |

| WVDC | Capacitance (µF) | IC PART NUMBER | dv/dt (v/µ sec.) | Dims DxL (mm) | d (MM) |
|------|------------------|----------------|------------------|---------------|--------|
| 400 | 0.0082 | 822MPW400K | 15 | 6.5x14.5 | 0.6 |
| 400 | 0.01 | 103MPW400K | 15 | 6x14.5 | 0.6 |
| 400 | 0.015 | 153MPW400K | 15 | 6.5x14.5 | 0.6 |
| 400 | 0.022 | 223MPW400K | 15 | 7x14.5 | 0.6 |
| 400 | 0.033 | 333MPW400K | 15 | 7.5x14.5 | 0.6 |
| 400 | 0.047 | 473MPW400K | 15 | 8.5x14.5 | 0.8 |
| 400 | 0.068 | 683MPW400K | 12 | 8.5x20.5 | 0.8 |
| 400 | 0.1 | 104MPW400K | 12 | 8.5x20.5 | 0.8 |
| 400 | 0.15 | 154MPW400K | 7 | 9.5x29 | 0.8 |
| 400 | 0.22 | 224MPW400K | 7 | 10.5x29 | 0.8 |
| 400 | 0.33 | 334MPW400K | 7 | 12.5x29 | 0.8 |
| 400 | 0.47 | 474MPW400K | 7 | 14x29 | 0.8 |
| 400 | 0.68 | 684MPW400K | 5 | 15x34 | 0.8 |
| 400 | 1 | 105MPW400K | 5 | 17.5x34 | 0.8 |
| 400 | 1.5 | 155MPW400K | 5 | 20.5x34 | 1 |
| 400 | 2.2 | 225MPW400K | 3 | 24x46 | 1 |
| 400 | 3.3 | 335MPW400K | 3 | 26x44 | 1 |
| 400 | 4.7 | 475MPW400K | 3 | 28.5x47 | 1 |
| 630 | 0.001 | 102MPW630K | 22 | 6.5x14.5 | 0.6 |
| 630 | 0.0015 | 152MPW630K | 22 | 6.5x14.5 | 0.6 |
| 630 | 0.0022 | 222MPW630K | 22 | 6.5x14.5 | 0.6 |
| 630 | 0.0033 | 332MPW630K | 22 | 6.5x14.5 | 0.6 |
| 630 | 0.0047 | 472MPW630K | 22 | 6x14.5 | 0.6 |
| 630 | 0.0068 | 682MPW630K | 22 | 6x14.5 | 0.6 |
| 630 | 0.0082 | 822MPW630K | 22 | 6x14.5 | 0.6 |
| 630 | 0.01 | 103MPW630K | 22 | 6.5x14.5 | 0.6 |
| 630 | 0.015 | 153MPW630K | 22 | 7.5x14.5 | 0.6 |
| 630 | 0.022 | 223MPW630K | 22 | 8.5x14.5 | 0.8 |
| 630 | 0.033 | 333MPW630K | 16 | 8.5x20.5 | 0.8 |
| 630 | 0.047 | 473MPW630K | 16 | 9x20.5 | 0.8 |
| 630 | 0.068 | 683MPW630K | 12 | 9x29 | 0.8 |
| 630 | 0.1 | 104MPW630K | 12 | 10.5x29 | 0.8 |
| 630 | 0.15 | 154MPW630K | 12 | 12x29 | 0.8 |
| 630 | 0.22 | 224MPW630K | 7 | 12.5x34 | 0.8 |
| 630 | 0.33 | 334MPW630K | 7 | 15.5x34 | 0.8 |
| 630 | 0.47 | 474MPW630K | 7 | 18x34 | 0.8 |
| 630 | 0.68 | 684MPW630K | 7 | 22x34 | 1 |

Looking for pricing, stock, or lifecycle information?

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- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management