



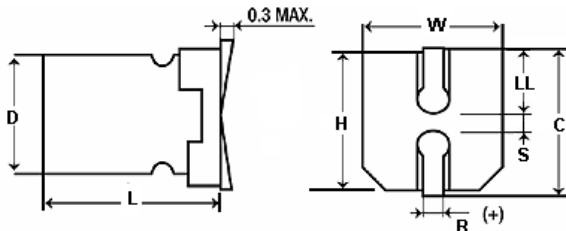
FEATURES

Small Size - Non/Bi-polar

APPLICATIONS

Bypass - Coupling - Filtering

| | | | | | | | | | | |
|---|-----------------------|--|----------------------------------|------------|-----------|------------|-------------------------|-----------|-----------|-----------|
| Operating Temperature Range | | -40°C to +85°C | | | | | | | | |
| Capacitance Tolerance | | +20% at 120 Hz, 20°C | | | | | | | | |
| Surge voltage | WVDC | 6.3 | 10 | 16 | 25 | 35 | 50 | | | |
| | SVDC | 7.9 | 13 | 20 | 32 | 44 | 63 | | | |
| Dissipation Factor | WVDC | 6.3 | 10 | 16 | 25 | 35 | 50 | | | |
| | tan δ | .24 | .2 | .18 | .18 | .14 | .14 | | | |
| Leakage current | | 2 Minutes | | | | | | | | |
| | | .03CV +6uA | | | | | | | | |
| Low temperature stability Impedance ratio (120 Hz) | Rated WVDC | 6.3 | 10 | 16 | 25 | 35 | 50 | | | |
| | -25°C to +20°C | 4 | 3 | 2 | 2 | 2 | 2 | | | |
| | -40°C to +20°C | 8 | 6 | 4 | 4 | 3 | 3 | | | |
| Load Life | | 2000 hours at 85°C with rated WVDC and ripple current applied. Polarity reversed every 250 hours | | | | | | | | |
| | | Capacitance change | ≤20% of initial measured value | | | | | | | |
| | | Dissipation factor | ≤200% of maximum specified value | | | | | | | |
| | | Leakage current | ≥100% of maximum specified value | | | | | | | |
| Shelf Life | | 1000 hours at 85°C with no voltage applied | | | | | | | | |
| | | Capacitance change | ≤20% of initial measured value | | | | | | | |
| | | Dissipation factor | ≤200% of maximum specified value | | | | | | | |
| | | Leakage current | ≥100% of maximum specified value | | | | | | | |
| Resistance to soldering heat | | Capacitors placed on a 250C hot plate for 30 seconds with their electrode terminations facing downward will fulfill the following conditions after being cooled to room temperature | | | | | | | | |
| | | Capacitance change | ≤10% of initial measured value | | | | | | | |
| | | Dissipation factor | ≤100% of maximum specified value | | | | | | | |
| | | Leakage current | ≥100% of maximum specified value | | | | | | | |
| Ripple Current Multipliers | | Frequency (Hz) | | | | | Temperature (°C) | | | |
| | | 50 | 120 | 400 | 1k | 10k | 100k | 85 | 70 | 65 |
| | | 0.8 | 1.0 | 1.0 | 1.1 | 1.3 | 1.5 | 1.0 | 1.35 | 1.35 |



| D±0.5 | L | W±0.2 | H±0.2 | C±0.2 | R | S±0.2 | S±0.2 |
|-------|--------------|-------|-------|-------|---------|-------|-------|
| 4 | 5.4 0.1/-0.2 | 4.3 | 4.3 | 5 | 0.5-0.8 | 1.8 | 1.0 |
| 5 | 5.4 0.1/-0.2 | 5.3 | 5.3 | 6 | 0.5-0.8 | 2.1 | 1.4 |
| 6.3 | 5.4 0.1/-0.2 | 6.6 | 6.6 | 7 | 0.5-0.8 | 2.4 | 2.2 |

NPS

+85°C, Bi-Polar 1000 hours

| Capacitance (µF) | WVDC | IC PART NUMBER | Maximum ESR (Ω) 120 Hz, +20°C | Maximum RMS Ripple Current (mA) 120 Hz, +85°C | Dims DxL (mm) |
|------------------|------|----------------------------|-------------------------------------|---|---------------|
| 0.1 | 50 | 104NPS050M | 2321.01 | 1 | 4x5.4 |
| 0.22 | 50 | 224NPS050M | 1055 | 2.3 | 4x5.4 |
| 0.33 | 50 | 334NPS050M | 703.34 | 3.5 | 4x5.4 |
| 0.47 | 50 | 474NPS050M | 493.83 | 5 | 4x5.4 |
| 1 | 50 | 105NPS050M | 232.1 | 10 | 4x5.4 |
| 2.2 | 50 | 225NPS050M | 105.5 | 15 | 5x5.4 |
| 2.2 | 35 | 225NPS035M | 105.5 | 8.4 | 4x5.4 |
| 3.3 | 50 | 335NPS050M | 70.33 | 18 | 5x5.4 |
| 4.7 | 50 | 475NPS050M | 49.38 | 23 | 6.3x5.4 |
| 4.7 | 35 | 475NPS035M | 49.38 | 23 | 5x5.4 |
| 4.7 | 16 | 475NPS016M | 63.49 | 12 | 4x5.4 |
| 10 | 16 | 106NPS016M | 29.842 | 25 | 5x5.4 |
| 10 | 35 | 106NPS035M | 23.21 | 30 | 6.3x5.4 |
| 10 | 10 | 106NPS010M | 33.157 | 17 | 4x5.4 |
| 22 | 6.3 | 226NPS6R3M | 18.086 | 31 | 5x5.4 |
| 22 | 16 | 226NPS016M | 13.564 | 39 | 6.3x5.4 |
| 33 | 16 | 336NPS016M | 9.043 | 57 | 6.3x5.4 |
| 47 | 6.3 | 476NPS6R3M | 8.466 | 47 | 6.3x5.4 |