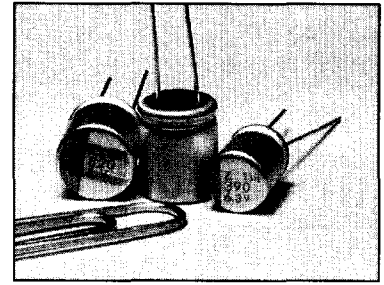


LEADED

FEATURES

- SOLID ELECTROLYTE
- LOWEST ESR & HIGHEST RIPPLE CURRENT AT 100KHz
- CAPACITANCE VALUES UP TO 1,500 μ F
- 8x11.5mm ~ 10x12.5mm CASE SIZES, RADIAL LEADS
- LEAD-FREE AND PVC FREE CONSTRUCTION

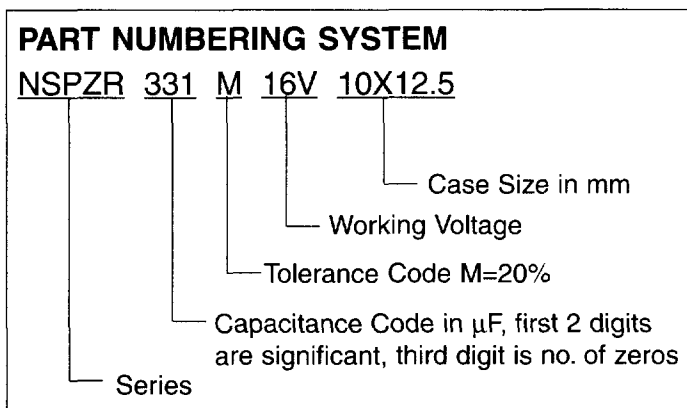


CHARACTERISTICS

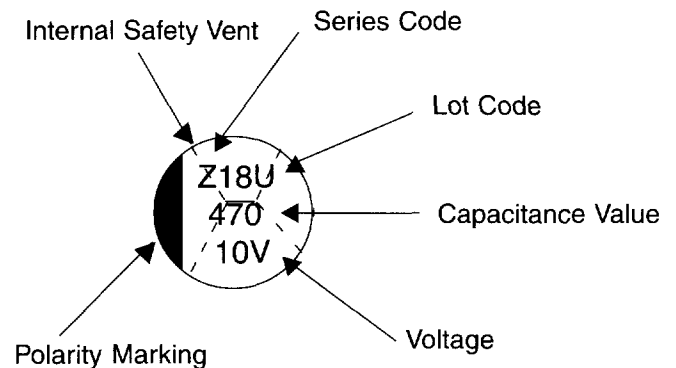
| | | |
|--|--------------------|---|
| Rated Voltage Range | 2.5 ~ 25 Vdc | |
| Rated Capacitance Range | 68 ~ 1,500 μ F | |
| Operating Temp. Range | -55 ~ +105°C | |
| Capacitance Tolerance | ±20%(M) | |
| Max. Leakage Current After 2 Minutes @ 20°C | Less than 0.2CV | |
| Working and Surge Voltage Ratings | W.V. (Vdc) | 4.0 6.3 10 16 20 25 |
| | S.V. (Vdc) | 4.6 7.2 11.5 18.4 23.0 28.75 |
| Low Temperature Stability Impedance Ratio @ 100KHz | Z -25°C/Z +20°C | ≤ 1.15 |
| | Z -55°C/Z +20°C | ≤ 1.25 |
| Tan δ @ 120Hz/20°C | All Case Sizes | 0.12 |
| Load LifeTest @ 105°C 2,000 Hours | Capacitance Change | Within ± 20% of initial measured value |
| | Tan δ | Within 150% of specified max. value |
| | ESR | Within 150% of specified max. value |
| | Leakage Current | Less than specified max. value |

STANDARD PRODUCTS AND CASE SIZES (mm)

| Cap (μ F) | Code | Working Voltage (Vdc) | | | | | | |
|----------------|------|-----------------------|---------|---------|---------|---------|---------|---------|
| | | 2.5 | 4.0 | 6.3 | 10 | 16 | 20 | 25 |
| 68 | 680 | - | - | - | - | - | - | 8x11.5 |
| 100 | 101 | - | - | - | - | - | 8x11.5 | 10x12.5 |
| 150 | 151 | - | - | - | - | - | 10x12.5 | - |
| 180 | 181 | - | - | - | - | 8x11.5 | - | - |
| 270 | 271 | - | - | - | 8x11.5 | - | - | - |
| 330 | 331 | - | - | - | - | 10x12.5 | - | - |
| 390 | 391 | - | - | 8x11.5 | - | - | - | - |
| 470 | 471 | - | - | - | 10x12.5 | - | - | - |
| 560 | 561 | - | 8x11.5 | - | - | - | - | - |
| 680 | 681 | 8x11.5 | - | 10x12.5 | - | - | - | - |
| 820 | 821 | - | 10x12.5 | - | - | - | - | - |
| 1500 | 152 | 10x12.5 | - | - | - | - | - | - |



PART MARKING



LEADED

STANDARD VALUES AND SPECIFICATIONS

| Voltage (Vdc) | Cap. (μF) | Max. ESR (mΩ) 20°C/100K-300KHz | Ripple Current (mA) 105°C/100KHz |
|---------------|-----------|-----------------------------------|-------------------------------------|
| 2.5 | 680 | 10 | 5,230 |
| | 1500 | 8 | 5,500 |
| 4 | 560 | 10 | 5,230 |
| | 820 | 8 | 5,500 |
| 6.3 | 390 | 12 | 4,770 |
| | 680 | 10 | 5,500 |
| 10 | 270 | 14 | 4,420 |
| | 470 | 12 | 5,300 |
| 16 | 180 | 16 | 4,360 |
| | 330 | 14 | 5,050 |
| 20 | 100 | 24 | 3,320 |
| | 150 | 20 | 4,320 |
| 25 | 68 | 24 | 3,320 |
| | 100 | 20 | 4,320 |

DIAMETER AND LEADSPACE (mm)

| Case Dia. (D ϕ) | 8 | 10 |
|------------------------|-----|-----|
| Lead Spacing (F) | 3.5 | 5.0 |
| Leads Dia. (d ϕ) | 0.6 | 0.6 |
| Dim. α | 0.5 | |
| Dim. β | 1.5 | |

