

## FEATURES

- Wide temperature range (-25°C ~ +105°C).
- Long life 6,000 -8,000 hours @ 105°C  
Designed FoR Ballast And Lighting Applications
- Safety Vent Construction  
RoHs COMPLIANT



## PART NUMBERING

| Part Number Example: 728B-250/100M10X16F |   |                  |   |                        |                |       |                |
|--|---|------------------|---|------------------------|----------------|-------|----------------|
| 728B                                     | - | 250              | / | 100                    | M              | 10X16 | F              |
| Type                                     |   | Rated DC Voltage |   | Capacitance Code (μF)* | Tolerance Code | Size  | RoHs Compliant |

\* Capacitance Code: First two digits represent significant figures, third digit represents multiplier (number of zeros).

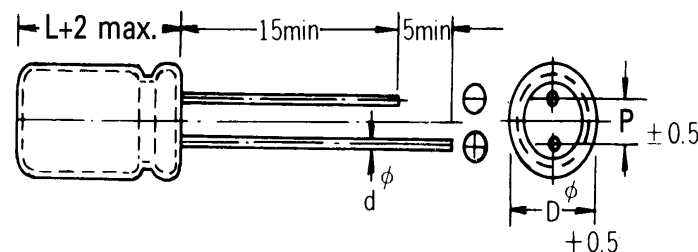
## SPECIFICATIONS

|   |                    |                                   |     |     |     |     |     |
|---|--------------------|-----------------------------------|-----|-----|-----|-----|-----|
| Capacitance Range   | 1.0~3,30 μF        |                                   |     |     |     |     |     |
| Operating Temperature Range                                     | -25°C ~ 105°C.     |                                   |     |     |     |     |     |
| Voltage Range   | 160-450VDC         |                                   |     |     |     |     |     |
| Capacitance Tolerance @ 20°C, 120Hz                             | ±20%.              |                                   |     |     |     |     |     |
| Maximum Leakage Current (20°C) (after 1 minute @ rated voltage) | 0.04CV + 100 μA,   |                                   |     |     |     |     |     |
| DF @ 120Hz 20° C  | Working voltage    | 160                               | 200 | 250 | 350 | 400 | 450 |
|   | DF % max           | 10                                | 10  | 10  | 12  | 12  | 12  |
| Low Temperature Characteristics (120Hz)                         | Working volts      | 160                               | 200 | 250 | 350 | 400 | 450 |
|   | Z -25°C~+20°C      | 3                                 | 3   | 3   | 6   | 6   | 6   |
| Load Life (@ 105°C)<br>D <8mm 6,000 hrs<br>D ≥10mm 8,000 hrs    | Capacitance Change | Within ±20% of initial value      |     |     |     |     |     |
|   | Dissipation Factor | ≤200% of initial specified value. |     |     |     |     |     |
|   | Leakage Current    | Initial specified value.          |     |     |     |     |     |
| Shelf Life (105°C)<br>After 1,000 hrs with<br>no voltage applie | Capacitance Change | Within ±20% of initial value.     |     |     |     |     |     |
|   | Dissipation Factor | ≤200% of initial specified value. |     |     |     |     |     |
|   | Leakage Current    | Initial specified value.          |     |     |     |     |     |

## MULTIPLIER FOR RIPPLE CURRENT VS FREQ.

| FREQ. (Hz) | 120 | 1K  | 10K | >100K |
|------------|-----|-----|-----|-------|
| Multiplier | 1.0 | 1.5 | 1.7 | 1.9   |

## DIMENSIONS



Vinyl Sleeve

## DIMENSIONS (UNIT: mm)

| D  | 8   | 10  | 13  | 16  | 18  |
|----|-----|-----|-----|-----|-----|
| P  | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 |
| dØ | 0.5 | 0.6 | 0.8 |     |     |

| CA<br>P.<br>(<br>μF) | 160 vdc |        | 200 vdc |        | 250 vdc |        | 350 vdc |        | 400 vdc |        | 450 vdc |        |
|----------------------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
|                      | SIZE    | RIPPLE | SIZE    | RIPPLE | SIZE    | RIPPLE | SIZE    | RIPPLE | SIZE    | RIPPLE | SIZE    | RIPPLE |
| 1                    |         |        |         |        |         |        | 8X11.5  | 75     | 8X11.5  | 65     | 8X11.5  | 85     |
| 2.2                  |         |        |         |        | 8X11.5  | 70     | 8X11.5  | 80     | 8X11.5  | 85     | 10X12.5 | 90     |
| 3.3                  |         |        |         |        | 8X11.5  | 75     | 10X12.5 | 85     | 10X12.5 | 95     | 10X16   | 105    |
| 4.7                  |         |        | 8X11.5  | 80     | 10X12.5 | 100    | 10X12.5 | 100    | 10X16   | 110    | 10X16   | 115    |
| 6.8                  |         |        | 8X11.5  | 100    | 10X12.5 | 105    | 10X16   | 110    | 10X16   | 115    | 10X20   | 125    |
| 10                   | 10X12.5 | 105    | 10X12.5 | 115    | 10X16   | 130    | 10X20   | 140    | 10X20   | 160    | 13X20   | 175    |
| 22                   | 10X16   | 170    | 10X16   | 170    | 10X20   | 190    | 13X20   | 245    | 13X20   | 230    | 16X21   | 275    |
| 33                   | 10X20   | 235    | 10X20   | 245    | 13X20   | 305    | 13X25   | 340    | 13X25   | 310    | 16X25   | 370    |
| 47                   | 13X20   | 285    | 13X20   | 370    | 13X25   | 370    | 16X25   | 410    | 16X31.5 | 445    | 18X25   | 455    |
| 68                   | 13X20   | 445    | 13X25   | 425    | 16X25   | 495    | 18X25   | 530    | 18X31.5 | 550    | 18X31.5 | 600    |
| 100                  | 16X21   | 550    | 16X25   | 600    | 16X31.5 | 645    | 18X35.5 | 665    | 18X41   | 750    |         |        |
| 150                  | 16X25   | 655    | 16X31.5 | 825    | 18X31.5 | 775    |         |        |         |        |         |        |
| 220                  | 18X31.5 | 875    | 18X31.5 | 1000   |         |        |         |        |         |        |         |        |
| 330                  | 18X35.5 | 1190   |         |        |         |        |         |        |         |        |         |        |

RIPPLE CURRENT (mA) @ 105°C 120HZ