

FEATURES

- Wide temperature range (-40°C ~ +105°C).
- Long life (10,000 hours @ 105°C D ≥10mm)
High ripple current
- For switching Pwr Supplies, Ballasts & Measuring Instruments
RoHs COMPLIANT

PART NUMBERING

Part Number Example: 725L-050/101M10X16F

| | | | | | | | |
|-------------|---|------------------|---|------------------------|----------------|--------------|----------------|
| 725L | - | 050 | / | 101 | 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).

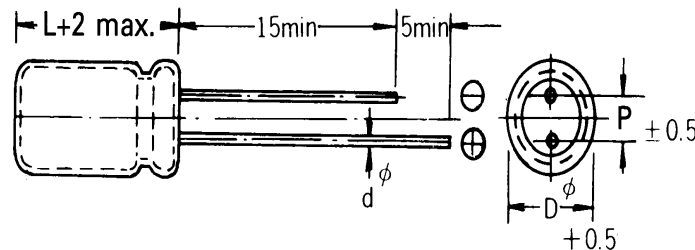
SPECIFICATIONS

| | | | | | | | | | | | | |
|--|-------------------------------------|-----------------------------------|----|----|----|----------------|-----|-----|-----|-----|-----|-----|
| Capacitance Range | 6.8~3,300 μF | | | | | 6.8~220 μF | | | | | | |
| Operating Temperature Range | -40°C ~ 105°C. | | | | | -25°C, +105°C. | | | | | | |
| Voltage Range | 10 ~50vdc | | | | | 160~450vdc | | | | | | |
| Capacitance Tolerance @ 20°C, 120Hz | ±20%. | | | | | | | | | | | |
| Maximum Leakage Current (20°C) (after 1 minute @ rated voltage) | 0.01CV or 3μA, whichever is greater | | | | | 0.04CV+100μA | | | | | | |
| DF @ 120Hz 20° C | Working voltage | 10 | 16 | 25 | 35 | 50 | 160 | 200 | 250 | 350 | 400 | 450 |
| | DF % max | 19 | 16 | 14 | 12 | 10 | 15 | 15 | 15 | 20 | 20 | 20 |
| Low Temperature Characteristics (120Hz) | Working volts | 10 | 16 | 25 | 35 | 50 | 160 | 200 | 250 | 350 | 400 | 450 |
| | Z -25°C~+20°C | 4 | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 6 | 6 | 6 |
| Load Life (@ 105°C) D <8mm 5,000 hrs D 8mm 8,000 hrs D ≥10mm 10,000 hrs | Capacitance Change | Within ±20% of initial value | | | | | | | | | | |
| | Dissipation Factor | ≤200% of initial specified value. | | | | | | | | | | |
| | Leakage Current | Initial specified value. | | | | | | | | | | |
| Shelf Life (105°C) After 1,000 hrs with 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 | 0.5 | 0.8 | 0.85 | 1.0 |

DIMENSIONS



Vinyl Sleeve

DIMENSIONS (UNIT: mm)

| D | 5 | 6.3 | 8 | 10 | 13 | 16 | 18 |
|----|-----|-----|-----|-----|-----|-----|-----|
| P | 2.0 | 2.5 | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 |
| dØ | 0.5 | | 0.6 | | | 0.8 | |

| CAP. (μ F) | 10 vdc Surge 13v | | 16 vdc Surge 20v | | 25 vdc Surge 32v | | 35 vdc Surge 44v | | 50 vdc Surge 63v | |
|--------------------|---------------------|--------|---------------------|--------|---------------------|--------|---------------------|--------|---------------------|--------|
| | SIZE | RIPPLE | SIZE | RIPPLE | SIZE | RIPPLE | SIZE | RIPPLE | SIZE | RIPPLE |
| 6.8 | | | | | | | | | 5X11 | 86 |
| 10 | | | | | | | 5X11 | 74 | 5X11 | 97 |
| 22 | | | | | 5X11 | 120 | 5X11 | 138 | 6.3X11 | 149 |
| 33 | | | 5X11 | 115 | 5X11 | 143 | 6.3X11 | 178 | 8X11.5 | 241 |
| 47 | 5X11 | 113 | 5X11 | 172 | 6.3X11 | 230 | 8X11.5 | 270 | 8X11.5 | 287 |
| | | | | | | | | | 10X12.5 | 299 |
| 68 | 5X11 | 144 | 6.3X11 | 218 | 8X11.5 | 293 | 8X11.5 | 322 | 10X12.5 | 356 |
| 100 | 6.3X11 | 233 | 8X11.5 | 264 | 8X11.5 | 387 | 10X12.5 | 414 | 10X16 | 517 |
| 150 | 6.3X11 | 309 | 8X11.5 | 299 | 10X12.5 | 460 | 10X16 | 632 | 10X20 | 747 |
| 220 | 6.3X11 | 392 | 8X11.5 | 460 | 10X16 | 615 | 10X20 | 805 | 13X20 | 977 |
| | | | 10X12.5 | 494 | | | | | | |
| 330 | 8X11.5 | 524 | 10X16 | 586 | 10X20 | 805 | 13X20 | 1,035 | 13X25 | 1,150 |
| 470 | 10X12.5 | 632 | 10X20 | 805 | 13X20 | 1,092 | 13X25 | 1,173 | 16X25 | 1,552 |
| 1,000 | 10X16 | 1,163 | 13X20 | 1,173 | 13X25 | 1,552 | 16X31.5 | 1,932 | 18X31.5 | 2,093 |
| 2,200 | 13X20 | 1,834 | 16X25 | 2,093 | 16X31.5 | 2,622 | | | | |
| 3,300 | 16X25 | 2,070 | 16X31.5 | 2,680 | | | | | | |

RIPPLE CURRENT (mA) @ 105°C 100KHZ

| CAP. (μ F) | 160 vdc Surge 200v | | 200 vdc Surge 250v | | 250 vdc Surge 300v | | 350 vdc Surge 400v | | 400 vdc Surge 450v | | 450 vdc Surge 500v | |
|--------------------|-----------------------|--------|-----------------------|--------|-----------------------|--------|-----------------------|--------|-----------------------|--------|-----------------------|--------|
| | SIZE | RIPPLE | SIZE | RIPPLE | SIZE | RIPPLE | SIZE | RIPPLE | SIZE | RIPPLE | SIZE | RIPPLE |
| 6.8 | | | | | | | 10X20 | 270 | 10X20 | 270 | 13X20 | 240 |
| 10 | 10X16 | 280 | 10X20 | 310 | 10X20 | 320 | 13X20 | 350 | 13X20 | 350 | 13X25 | 430 |
| 22 | 10X20 | 450 | 10X20 | 470 | 13X20 | 490 | 13X25 | 600 | 16X25 | 690 | 16X25 | 710 |
| 33 | 13X20 | 610 | 13X20 | 620 | 13X25 | 750 | 16X21 | 820 | 18X21 | 870 | 18X25 | 950 |
| 47 | 13X20 | 680 | 13X20 | 910 | 16X21 | 930 | 18X21 | 1,020 | 18X25 | 1,130 | 18X31.5 | 1,120 |
| 68 | 13X25 | 1,100 | 16X25 | 1,190 | 18X21 | 1,300 | 18X25 | 1,400 | 18X31.5 | 1,460 | | |
| 100 | 18X21 | 1,380 | 18X21 | 1,310 | 18X25 | 1,500 | | | | | | |
| 150 | 18X25 | 1,780 | 18X25 | 1,800 | 18X31.5 | 1,870 | | | | | | |
| 220 | 18X25 | 2,290 | 18X31.5 | 2,900 | | | | | | | | |

RIPPLE CURRENT (mA) @ 105°C 100KHZ