

FK (CD266)

- 长寿命 105℃ 4000-5000 小时，高可靠性。Long useful life: 4000-5000 hours at 105℃ , High-reliability.
- 高电压，到 500V。High rated voltage ,up to 500V.
- 高电压电源滤波用。Filtering of high voltages in power supplies.

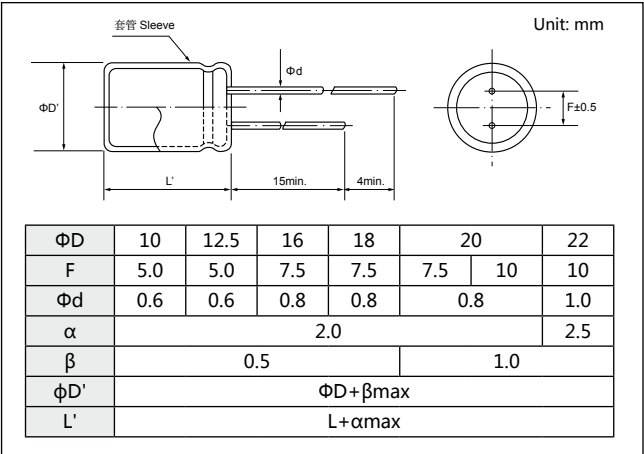


Miniature Mount

主要技术性能 Specifications

| 项 目 Item  | 特 性 Performance Characteristics  |                             |
|---|--|-----------------------------|
| 工作温度范围<br>Category Temperature Range  | -40~+105℃  | -25~+105℃                   |
| 额定电压范围<br>Rated Voltage Range   | 160~250V <sub>dc</sub>   | 350~500V <sub>dc</sub>      |
| 标称电容量允许偏差<br>Capacitance Tolerance  | ±20% (+20℃ , 120Hz)  |                             |
| 漏电流<br>Leakage Current  | after 1 minutes at 20℃ application of rated voltage,leakage current is not more than :<br>CV ≤ 1000: I ≤ 0.06CV+40 ; CV>1000: I ≤ 0.03CV+70 ( 1 分钟 ,20℃ )  |                             |
| 损失角正切值 ( tgδ )<br>Dissipation Factor<br>( +20℃ ,120Hz )                                 | Rated Voltage(V <sub>dc</sub> )  | 160 200 250 350 400 450 500 |
|   | tgδ(Max.)  | 0.12 0.15 0.20              |
| 温度特性 ( 阻抗比 Max. )<br>Temperature characteristics<br>(Max. Impedance ratio)<br>( 120Hz ) | Rated Voltage(V <sub>dc</sub> )  | 160 200 250 350 400 450 500 |
|   | Z(-25℃ )/Z(+20℃ )  | 3 6 8                       |
|   | Z(-40℃ )/Z(+20℃ )  | 4 -                         |
| 耐久性<br>Endurance  | +105℃施加带额定纹波电流的额定电压规定时间 ( Φ10: 4000 小时 ; Φ12.5-22: 5000 小时 ) , 恢复 24 小时后 :<br>After applying rated voltage with specified ripple current for specified time (Φ10: 4000h; Φ12.5-22: 5000h )<br>at +105℃ and then resumed 24 hours:<br>电容量变化率 Capacitance change : ≤初始值的 ±20% ±20% of the initial value<br>损失角正切值 D.F. ( tanδ ) : ≤初始规格值的 300% 300% of the initial specified value<br>漏 电 流 Leakage current : ≤初始规格值 The initial specified value |                             |
| 高温贮存<br>Shelf Life  | +105℃ , 1000 小时贮存后 , 加额定工作电压处理 30 分钟 , 恢复 24 小时后 :<br>After storage for 1000 hours at +105℃ , U <sub>R</sub> to be applied for 30 minutes and then resumed 24 hours :<br>电容量变化率 Capacitance change : ≤初始值的 ±20% ±20% of the initial value<br>损失角正切值 D.F. ( tanδ ) : ≤初始规格值的 200% 200% of the initial specified value<br>漏 电 流 Leakage current : ≤初始规格值 The initial specified value   |                             |

外形图及尺寸 Diagram of Dimensions



纹波电流修正系数 Multiplier for Ripple Current

|                              |       |      |      |      |       |
|------------------------------|-------|------|------|------|-------|
| 频率系数 Frequency coefficient   |       |      |      |      |       |
| Frequency (Hz)               | 50/60 | 120  | 300  | 1k   | ≥ 10K |
| Coefficient                  | 0.75  | 1.00 | 1.20 | 1.35 | 1.50  |
| 温度系数 Temperature coefficient |       |      |      |      |       |
| Temperature (℃ )             | +70   | +85  | +105 |      |       |
| Coefficient                  | 1.80  | 1.40 | 1.00 |      |       |

标准品一览表 *Standard Ratings*

| U <sub>R</sub><br>(Surge Voltage)<br>Code(V) | Capacitance<br>(μF) | Size<br>ΦD×L<br>(mm) | Rated ripple<br>current<br>105°C, 120Hz<br>(mA <sub>rms</sub> ) | Max ESR<br>20°C, 120Hz<br>(Ω) | Typ ESR<br>20°C, 120Hz<br>(Ω) | U <sub>R</sub><br>(Surge Voltage)<br>Code(V) | Capacitance<br>(μF) | Size<br>ΦD×L<br>(mm) | Rated ripple<br>current<br>105°C, 120Hz<br>(mA <sub>rms</sub> ) | Max ESR<br>20°C, 120Hz<br>(Ω) | Typ ESR<br>20°C, 120Hz<br>(Ω) |
|--|---------------------|----------------------|---|-------------------------------|-------------------------------|--|---------------------|----------------------|---|-------------------------------|-------------------------------|
| 160<br>(200)<br>2C                           | 10                  | 10×16                | 95  | 19                            | 7                             | 400<br>(450)<br>2G                           | 2.2                 | 10×12.5              | 40  | 109                           | 29.9                          |
|  | 22                  | 10×20                | 145   | 9                             | 3.5                           |  | 3.3                 | 10×16                | 50  | 72                            | 19.9                          |
|  | 33                  | 12.5×20              | 190   | 6                             | 2.2                           |  | 4.7                 | 10×20                | 70  | 51                            | 14.0                          |
|  | 47                  | 12.5×25              | 280   | 4                             | 1.5                           |  | 10                  | 12.5×20              | 120   | 24                            | 6.6                           |
|  | 47                  | 16×20                | 280   | 4                             | 1.5                           |  | 22                  | 16×25                | 200   | 11                            | 3.0                           |
|  | 100                 | 16×25                | 380   | 2                             | 0.7                           |  | 22                  | 18×20                | 200   | 11                            | 3.0                           |
|  | 100                 | 18×20                | 380   | 2                             | 0.7                           |  | 33                  | 16×31.5              | 245   | 7                             | 2.0                           |
|  | 220                 | 18×36                | 630   | 0.9                           | 0.3                           |  | 33                  | 18×25                | 245   | 7                             | 2.0                           |
| 200<br>(250)<br>2D                           | 4.7                 | 10×12.5              | 60  | 41                            | 14                            | 450<br>(500)<br>2W                           | 47                  | 18×31.5              | 300   | 5                             | 1.4                           |
|  | 10                  | 10×16                | 95  | 19                            | 7                             |  | 1                   | 10×12.5              | 30  | 318                           | 87.6                          |
|  | 22                  | 10×20                | 145   | 9                             | 3.5                           |  | 2.2                 | 10×16                | 45  | 145                           | 39.8                          |
|  | 33                  | 12.5×20              | 190   | 6                             | 2.2                           |  | 3.3                 | 10×20                | 65  | 96                            | 26.5                          |
|  | 47                  | 12.5×25              | 280   | 4                             | 1.5                           |  | 4.7                 | 12.5×20              | 80  | 68                            | 18.6                          |
|  | 47                  | 16×20                | 280   | 4                             | 1.5                           |  | 10                  | 12.5×25              | 140   | 32                            | 8.8                           |
|  | 100                 | 16×31.5              | 410   | 2                             | 0.7                           |  | 22                  | 16×25                | 220   | 14                            | 4.0                           |
|  | 100                 | 18×25                | 410   | 2                             | 0.7                           |  | 33                  | 16×31.5              | 280   | 10                            | 2.7                           |
| 250<br>(300)<br>2E                           | 4.7                 | 10×12.5              | 60  | 41                            | 14                            |  | 47                  | 16×31.5              | 420   | 5.6                           | 1.9                           |
|  | 10                  | 10×20                | 105   | 19                            | 7                             |  | 68                  | 16×35.5              | 520   | 3.9                           | 1.3                           |
|  | 22                  | 12.5×25              | 180   | 9                             | 3.5                           |  | 82                  | 18×31.5              | 580   | 3.2                           | 1.1                           |
|  | 22                  | 16×20                | 180   | 9                             | 3.5                           |  | 100                 | 18×36                | 750   | 2.6                           | 0.9                           |
|  | 33                  | 12.5×25              | 250   | 6                             | 2.2                           |  | 120                 | 18×40                | 800   | 2.2                           | 0.7                           |
|  | 33                  | 16×20                | 250   | 6                             | 2.2                           |  | 150                 | 20×41                | 860   | 1.7                           | 0.6                           |
|  | 47                  | 16×25                | 300   | 4                             | 1.5                           |  | 180                 | 22×41                | 920   | 1.4                           | 0.5                           |
|  | 47                  | 18×20                | 300   | 4                             | 1.5                           | 500<br>(550)<br>2H                           | 1                   | 10×12.5              | 32  | 265.4                         | 106.2                         |
|  | 100                 | 16×31.5              | 410   | 2                             | 0.7                           |  | 2.2                 | 10×16                | 49  | 120.6                         | 48.3                          |
|  | 100                 | 18×25                | 410   | 2                             | 0.7                           |  | 3.3                 | 10×20                | 68  | 80.4                          | 32.2                          |
| 350<br>(400)<br>2V                           | 3.3                 | 10×12.5              | 50  | 72                            | 28                            |  | 4.7                 | 12.5×20              | 84  | 56.5                          | 22.6                          |
|  | 4.7                 | 10×16                | 65  | 51                            | 19                            |  | 10                  | 12.5×25              | 145   | 26.5                          | 10.6                          |
|  | 10                  | 12.5×20              | 120   | 24                            | 10                            |  | 22                  | 16×25                | 230   | 12.1                          | 4.8                           |
|  | 22                  | 12.5×25              | 180   | 11                            | 4                             |  | 33                  | 16×31.5              | 295   | 8.0                           | 3.2                           |
|  | 22                  | 16×20                | 180   | 11                            | 4                             |  | 47                  | 18×31.5              | 415   | 5.6                           | 2.3                           |
|  | 33                  | 16×25                | 210   | 7                             | 2.5                           |  | 68                  | 18×36                | 530   | 3.9                           | 1.6                           |
|  | 47                  | 16×35.5              | 300   | 5                             | 1.8                           |  | 82                  | 18×40                | 590   | 3.2                           | 1.3                           |
|  | 47                  | 18×31.5              | 300   | 5                             | 1.8                           |  | 100                 | 20×41                | 750   | 2.7                           | 1.1                           |
|  |                     |                      |   |                               |                               |  | 120                 | 22×41                | 810   | 2.2                           | 0.9                           |
|  |                     |                      |   |                               |                               |  | 150                 | 22×45                | 930   | 1.8                           | 0.7                           |

可根据客户需要定制产品 Customer products are available on request.