

Aluminum Electrolytic Capacitor

KF series

KFSON

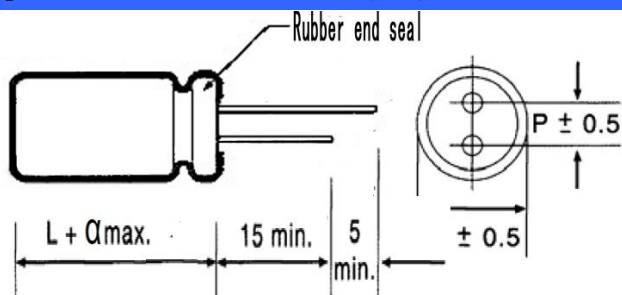
- ◆ Low impedance type
- ◆ Load life 2000-3000 Hrs at 105°C
- ◆ RoHS Compliant



Specifications 規格表

| Ltem 項目 | Performance Characteristics 特性參數 | | | | | | | |
|--------------------------------------|--|--|-----|-----|-------------------------------|-----|-----|-----|
| Operating Temperature Range 工作溫度範圍 | -40 to +105°C | -25 to +105°C | | | | | | |
| Rated Voltage Range 額定電壓範圍 | 100 VDC | 160 to 450 VDC | | | | | | |
| Capacitance Range 容量範圍 | 100 to 1000 µF | 22 to 680 µF | | | | | | |
| Capacitance Tolerance 靜電容量偏差 | ±20% (120Hz, +20°C) | | | | | | | |
| Leakage Current 漏電流 | I ≤ 0.03CV or 3uA 1分鐘後讀數 I ≤ 0.01CV or 3uA 2分鐘後讀數 | I ≤ 0.03CV 1分鐘後讀數 I ≤ 0.02CV 5分鐘後讀數 | | | | | | |
| Dissipation Factor 損耗角正切值 tan δ (%) | rated voltage (V) | 100 160 200 250 350 400 450 | | | | | | |
| | tan δ % (Max) | 8 20 20 20 20 24 24 | | | | | | |
| Low Temperature Characteristics 低溫特性 | impedance ratio max 電容器最大阻抗比值 | | | | | | | |
| | rated voltage (V) | 100 | 160 | 200 | 250 | 350 | 400 | 450 |
| | Z(-25°C)/Z(+20°C) | 2 | 3 | 3 | 3 | 5 | 5 | 6 |
| | Z(-40°C)/Z(+20°C) | 3 | 6 | 6 | 6 | 6 | 6 | - |
| Load Life 使用壽命 | 105°C施加額定工作電壓和額定紋波電流驚下表規定時間，恢復到20°C後，產品應滿足以下要求 | | | | | | | |
| | Time for 100V | 2000hours | | | | | | |
| | Time for 160-450V | 3000hours | | | | | | |
| | Capacitance change | ≤ ±20% of the initial value | | | | | | |
| | D. F. (tan δ) | ≤ 200% of the specified value | | | | | | |
| | Leakage current | ≤ The specified value | | | | | | |
| Shelf Life 存儲特性 | 105°C放置1000小時，恢復到20°C後，產品應滿足以下性能要求 | | | | | | | |
| | rated voltage (V) | 100V | | | 160-450V | | | |
| | Capacitance change | ≤ ±20% of the initial value | | | ≤ ±20% of the initial value | | | |
| | D. F. (tan δ) | ≤ 200% of the specified value | | | ≤ 200% of the specified value | | | |
| | Leakage current | ≤ The specified value | | | ≤ 500% of the specified value | | | |

Diagram of Dimensions 外形尺寸圖 (mm)



| | | | | | |
|-----|-----|-----|-----|------|------|
| D Φ | 13 | 16 | 18 | 22 | 25 |
| P | 5.0 | 7.5 | 7.5 | 10.0 | 12.5 |
| d Φ | 0.6 | 0.8 | 0.8 | 0.8 | 1.0 |

| | |
|---|--------------|
| α | (L < 20) 1.5 |
| | (L ≥ 20) 2.0 |

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Standard Ratings

| Rated Voltage | Rated Capacity | Size ΦD*L | Rated ripple current | Part NO. |
|---------------|----------------|--------------|-------------------------|-----------------|
| V | μ F | mm | mA | |
| 100V | 220 | 13*25 | 950 | KF221M10113*25A |
| | | 13*20 | 760 | KF221M10013*20A |
| | 270 | 13*30 | 1120 | KF271M10013*30A |
| | 330 | 13*20 | 936 | KF331M10013*20A |
| | | 16*20 | 1152 | KF331M10016*20A |
| | | 16*25 | 1440 | KF331M10016*25A |
| | | 18*20 | 1296 | KF331M10018*20A |
| | 470 | 16*26 | 1340 | KF471M10016*26A |
| | | 16*32 | 1650 | KF471M10016*32A |
| | | 18*26 | 1508 | KF471M10018*26A |
| | 560 | 16*36 | 1720 | KF561M10016*36A |
| | 680 | 18*36 | 1790 | KF681M10018*36A |
| | | 18*32 | 1591 | KF681M10018*32A |
| | | 16*36 | 1591 | KF681M10016*36A |
| | 820 | 18*36 | 1840 | KF821M10018*36A |
| | 1000 | 18*36 | 1900 | KF102M10018*36A |
| | | 18*41 | 1930 | KF102M10018*41A |
| | | 22*30 | 1726 | KF102M10022*30A |
| 160V | 100 | 16*25 | 540 | KF101M16016*25A |
| | | 16*20 | 432 | KF101M16016*20A |
| | | 13*20 | 351 | KF101M16013*20A |
| | 120 | 16*25 | 560 | KF121M16016*25A |
| | 150 | 16*32 | 710 | KF151M16016*32A |
| | 180 | 16*36 | 760 | KF181M16016*36A |
| | 220 | 16*26 | 593 | KF221M16016*26A |
| | | 16*32 | 729 | KF221M16016*32A |
| | | 18*26 | 666 | KF221M16018*26A |
| | | 16*36 | 820 | KF221M16016*36A |
| | 270 | 18*36 | 990 | KF271M16018*36A |
| | 330 | 22*30 | 1055 | KF331M16022*30A |
| | | 18*30 | 920 | KF331M16018*30A |
| | | 18*36 | 950 | KF331M16018*36A |
| | | 16*30 | 860 | KF331M16016*30A |
| | | 18*41 | 1180 | KF331M16018*41A |
| | 470 | 18*36 | 1036 | KF471M16018*36A |
| | | 22*40 | 1207 | KF471M16022*40A |
| | | 16*40 | 1030 | KF471M16016*40A |
| | | 22*30 | 1090 | KF471M16022*30A |
| | 680 | 18*40 | 1200 | KF681M16018*40A |
| | | 18*45 | 1200 | KF681M16018*45A |
| | | 22*40 | 1230 | KF681M16022*40A |
| | | 22*35 | 1207 | KF681M16022*35A |

Ripple current (mA, rms) at 105°C 120Hz

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Standard Ratings

| Rated Voltage | Rated Capacity | Size φ D*L | Rated ripple current | Part NO. |
|---------------|----------------|---------------|-------------------------|-----------------|
| V | μ F | mm | mA | |
| 200V | 68 | 13*25 | 450 | KF680M20013*25A |
| | | 13*20 | 360 | KF680M20013*20A |
| | 100 | 13*25 | 365 | KF101M20013*25A |
| | | 16*25 | 540 | KF101M20016*25A |
| | 120 | 16*25 | 560 | KF121M20016*25A |
| | 150 | 16*32 | 710 | KF151M20016*32A |
| | | 16*26 | 576 | KF151M20016*26A |
| | 180 | 16*36 | 760 | KF181M20016*36A |
| | 220 | 18*32 | 820 | KF221M20018*32A |
| | | 16*36 | 820 | KF221M20016*36A |
| | 270 | 18*36 | 990 | KF271M20018*36A |
| | 330 | 18*35 | 980 | KF331M20018*35A |
| | | 18*41 | 1080 | KF331M20018*41A |
| | 470 | 22*40 | 1100 | KF471M20022*40A |
| | | 25*35 | 1063 | KF471M20025*35A |
| | 680 | 22*40 | 1110 | KF681M20022*40A |
| 25*35 | | 1070 | KF681M20025*35A | |
| 250V | 100 | 16*26 | 548 | KF101M25016*26A |
| | | 16*32 | 675 | KF101M25016*32A |
| | | 18*26 | 617 | KF101M25018*26A |
| | | 18*20 | 475 | KF101M25018*20A |
| | 120 | 16*32 | 692 | KF121M25016*32A |
| | 150 | 18*26 | 610 | KF151M25018*26A |
| | | 18*32 | 750 | KF151M25018*32A |
| | | 22*25 | 716 | KF151M25022*25A |
| | | 16*36 | 750 | KF151M25016*36A |
| | 180 | 22*25 | 792 | KF181M25022*25A |
| | | 18*32 | 830 | KF181M25018*32A |
| | 220 | 18*32 | 850 | KF221M25018*32A |
| | | 18*36 | 950 | KF221M25018*36A |
| | | 18*40 | 1060 | KF221M25018*40A |
| | | 22*30 | 973 | KF221M25022*30A |
| | | 22*36 | 1160 | KF221M25022*36A |
| | 330 | 18*40 | 1065 | KF331M25018*40A |
| | | 22*40 | 1080 | KF331M25022*40A |
| | | 25*30 | 1070 | KF331M25025*30A |
| | 470 | 25*36 | 1095 | KF471M25025*36A |
| 25*42 | | 1100 | KF471M25025*42A | |
| 680 | 25*42 | 1112 | KF681M25025*42A | |

Ripple current (mA, rms) at 105°C 120Hz

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Standard Ratings

| Rated Voltage | Rated Capacity | Size φ D*L | Rated ripple current | Part NO. | |
|---------------|----------------|---------------|-------------------------|-----------------|-----------------|
| V | μ F | mm | mA | | |
| 350V | 22 | 13*20 | 220 | KF220M35013*20A | |
| | 33 | 13*20 | 263 | KF330M35013*20A | |
| | 47 | 16*25 | 389 | KF470M35016*25A | |
| | 68 | 16*32 | 475 | KF680M35016*32A | |
| | 100 | 18*36 | 481 | KF101M35018*36A | |
| | 120 | 18*36 | 525 | KF121M35018*36A | |
| | 150 | 18*41 | 560 | KF151M35018*41A | |
| 400V | 22 | 13*20 | 295 | KF220M40013*20A | |
| | 33 | 13*25 | 440 | KF330M40013*25A | |
| | 47 | 16*25 | 580 | KF470M40016*25A | |
| | 68 | 100 | 16*32 | 800 | KF680M40016*32A |
| | | | 18*32 | 800 | KF101M40018*32A |
| | | | 18*36 | 900 | KF101M40018*36A |
| | | | 18*40 | 950 | KF101M40018*40A |
| | 120 | 120 | 22*30 | 916 | KF101M40022*30A |
| | | | 18*32 | 800 | KF121M40018*32A |
| | | | 18*36 | 926 | KF121M40018*36A |
| | 150 | 150 | 22*32 | 956 | KF151M40022*32A |
| | | | 18*35 | 960 | KF151M40018*35A |
| | | | 18*40 | 970 | KF151M40018*40A |
| | 180 | 180 | 18*40 | 975 | KF181M40018*40A |
| | | | 22*40 | 1010 | KF181M40022*40A |
| | | | 22*40 | 1050 | KF221M40022*40A |
| | 220 | 220 | 25*40 | 1080 | KF221M40025*40A |
| | | | | | |
| | 450V | 22 | 13*25 | 320 | KF220M45013*25A |
| 13*20 | | | 256 | KF220M45013*20A | |
| 33 | | 16*25 | 460 | KF330M45016*25A | |
| 47 | | 16*36 | 650 | KF470M45016*36A | |
| 68 | | 68 | 16*35 | 656 | KF680M45016*35A |
| | | | 18*26 | 548 | KF680M45018*26A |
| | | | 18*36 | 760 | KF680M45018*36A |
| 100 | | 100 | 18*32 | 782 | KF101M45018*32A |
| | | | 18*36 | 880 | KF101M45018*36A |
| | | | 22*30 | 890 | KF101M45022*30A |
| 120 | | 120 | 18*32 | 790 | KF121M45018*32A |
| | | | 18*36 | 800 | KF121M45018*36A |
| | | | 22*35 | 795 | KF121M45022*35A |
| 150 | | 150 | 18*40 | 800 | KF151M45018*40A |
| | | | 22*36 | 800 | KF151M45022*36A |

Ripple current (mA, rms) at 105°C 120Hz

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