# VXK SERIES UPGRADE

## 105℃ 5000 hours, Ultra Miniaturized

- Load Life : 105℃ 5000 hours.

RoHS compliance

## ◆SPECIFICATIONS

| Items | Characteristics |
|---|---|
| Category Temperature Range | −25～+105℃ |
| Rated Voltage Range | 400～500Vdc |
| Capacitance Tolerance | ±20%(20℃,120Hz) |
| Leakage Current(MAX) | $I = 3\sqrt{CV}$ (After 5 minutes application of rated voltage)<br>I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(Vdc) |
| Dissipation Factor(MAX) | Rated Voltage (Vdc): 400～450 / 475, 500; tanδ: 0.20 / 0.25 (20℃,120Hz) |
| Endurance | After applying rated voltage with rated ripple current for 5000 hours at 105℃, the capacitors shall meet the following requirements.<br>Capacitance Change: Within ±20% of the initial value.<br>Dissipation Factor: Not more than 200% of the specified value.<br>Leakage Current: Not more than the specified value. |
| Low Temperature Stability Impedance Ratio(MAX) | Rated Voltage (Vdc): 400～450 / 475, 500; Z(−25℃)/Z(20℃): 8 / 12 (120Hz) |

## ◆MULTIPLIER FOR RIPPLE CURRENT

| Frequency (Hz) | 60(50) | 120(100) | 300 | 500 | 1k | 10k≦ |
|---|---|---|---|---|---|---|
| Coefficient | 0.80 | 1.00 | 1.15 | 1.20 | 1.25 | 1.40 |

## ◆OPTION

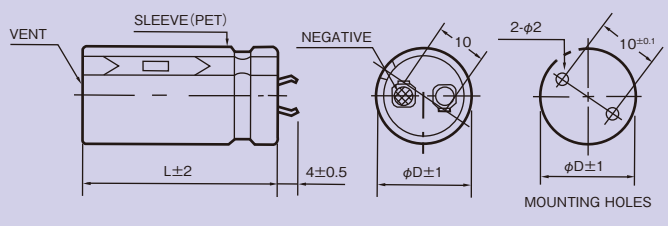
| | Code |
|---|---|
| PET Sleeve without plate | EFC |

## ◆PART NUMBER

| □□□ | VXK | □□□□□ | M | □□□ | SN | D×L |
|---|---|---|---|---|---|---|
| Rated Voltage | Series | Capacitance | Capacitance Tolerance | Option | Terminal Code | Case Size |

## ◆DIMENSIONS (mm)

● SN[4mm]terminal type  Terminal code : SN(Tin plating)



## ◆STANDARD SIZE

| Vdc / φD / Cap(μF) | 400 | | | | | | | | 420 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | φ22 | | φ25 | | φ30 | | φ35 | | φ22 | | φ25 | | φ30 | | φ35 | |
| 120 | | | | | | | | | 22×25 | 0.92 | | | | | | |
| 150 | 22×25 | 1.01 | | | | | | | 22×30 | 1.08 | | | | | | |
| 180 | 22×30 | 1.17 | 25×25 | 1.13 | | | | | 22×30 | 1.16 | 25×25 | 1.12 | | | | |
| | | | | | | | | | 22×35 | 1.23 | | | | | | |
| 220 | 22×35 | 1.33 | 25×30 | 1.31 | | | | | 22×35 | 1.33 | 25×30 | 1.30 | | | | |
| | | | | | | | | | 22×40 | 1.40 | | | | | | |
| 270 | 22×40 | 1.52 | 25×30 | 1.40 | 30×25 | 1.33 | | | 22×40 | 1.51 | 25×35 | 1.49 | 30×25 | 1.32 | | |
| | | | 25×35 | 1.50 | | | | | 22×45 | 1.58 | | | | | | |
| 330 | 22×45 | 1.71 | 25×35 | 1.61 | 30×30 | 1.55 | | | 22×50 | 1.78 | 25×40 | 1.69 | 30×30 | 1.54 | 35×25 | 1.40 |
| | 22×50 | 1.78 | 25×40 | 1.70 | | | | | | | | | | | | |
| 390 | 22×50 | 1.90 | 25×40 | 1.80 | 30×30 | 1.60 | 35×25 | 1.43 | 22×55 | 1.96 | 25×45 | 1.88 | 30×35 | 1.75 | 35×30 | 1.64 |
| | 22×55 | 1.97 | 25×45 | 1.89 | | | | | 22×60 | 2.02 | | | | | | |
| 470 | 22×60 | 2.18 | 25×50 | 2.10 | 30×35 | 1.82 | 35×30 | 1.68 | | | 25×50 | 2.10 | 30×40 | 1.96 | 35×30 | 1.70 |
| | | | | | | | | | | | 25×55 | 2.17 | | | 35×35 | 1.85 |
| 560 | | | 25×55 | 2.31 | 30×40 | 2.04 | 35×35 | 1.92 | | | 25×60 | 2.40 | 30×45 | 2.20 | 35×35 | 1.94 |
| | | | | | | | | | | | | | 30×50 | 2.29 | 35×40 | 2.07 |
| 680 | | | | | 30×45 | 2.31 | 35×35 | 2.00 | | | | | 30×50 | 2.43 | 35×40 | 2.17 |
| | | | | | 30×50 | 2.42 | 35×40 | 2.15 | | | | | 30×55 | 2.51 | 35×45 | 2.29 |
| 820 | | | | | 30×55 | 2.64 | 35×45 | 2.37 | | | | | | | 35×45 | 2.41 |
| | | | | | | | | | | | | | | | 35×50 | 2.50 |
| 1000 | | | | | | | 35×50 | 2.58 | | | | | | | 35×60 | 2.89 |
| 1200 | | | | | | | 35×60 | 2.95 | | | | | | | | |

| Vdc / φD / Cap(μF) | 450 | | | | | | | | 475 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | φ22 | | φ25 | | φ30 | | φ35 | | φ22 | | φ25 | | φ30 | | φ35 | |
| 82 | | | | | | | | | 22×25 | 0.74 | | | | | | |
| 100 | | | | | | | | | 22×30 | 0.84 | 25×25 | 0.85 | | | | |
| 120 | 22×25 | 0.93 | | | | | | | 22×30 | 0.91 | 25×30 | 0.95 | | | | |
| 150 | 22×30 | 1.09 | 25×25 | 1.06 | | | | | 22×35 | 1.05 | 25×30 | 1.04 | 30×25 | 1.05 | | |
| 180 | 22×35 | 1.24 | 25×30 | 1.22 | | | | | 22×40 | 1.19 | 25×35 | 1.19 | 30×30 | 1.19 | | |
| 220 | 22×40 | 1.41 | 25×30 | 1.31 | 30×25 | 1.26 | | | 22×45 | 1.34 | 25×40 | 1.35 | 30×30 | 1.28 | 35×25 | 1.22 |
| | | | 25×35 | 1.39 | | | | | | | | | | | | |
| 270 | 22×45 | 1.59 | 25×35 | 1.50 | 30×30 | 1.46 | 35×25 | 1.35 | 22×55 | 1.56 | 25×45 | 1.52 | 30×35 | 1.47 | 35×30 | 1.43 |
| | 22×50 | 1.65 | 25×40 | 1.58 | | | | | | | | | | | | |
| 330 | 22×55 | 1.85 | 25×45 | 1.78 | 30×30 | 1.55 | 35×25 | 1.41 | | | 25×50 | 1.71 | 30×40 | 1.66 | 35×30 | 1.50 |
| | | | | | 30×35 | 1.67 | 35×30 | 1.58 | | | | | | | | |
| 390 | 22×60 | 2.03 | 25×50 | 1.97 | 30×35 | 1.75 | 35×30 | 1.61 | | | 25×60 | 1.95 | 30×40 | 1.75 | 35×35 | 1.70 |
| | | | | | 30×40 | 1.87 | | | | | | | | | | |
| 470 | | | 25×55 | 2.18 | 30×40 | 1.97 | 35×35 | 1.84 | | | | | 30×50 | 2.04 | 35×40 | 1.90 |
| | | | 25×60 | 2.26 | 30×45 | 2.08 | | | | | | | | | | |
| 560 | | | | | 30×50 | 2.29 | 35×40 | 2.06 | | | | | 30×60 | 2.33 | 35×45 | 2.11 |
| 680 | | | | | 30×55 | 2.54 | 35×45 | 2.28 | | | | | | | 35×55 | 2.45 |
| | | | | | 30×60 | 2.63 | | | | | | | | | | |
| 820 | | | | | | | 35×50 | 2.55 | | | | | | | | |
| | | | | | | | 35×55 | 2.66 | | | | | | | | |
| 1000 | | | | | | | 35×60 | 2.93 | | | | | | | | |

| Vdc / φD / Cap(μF) | 500 | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | φ22 | | φ25 | | φ30 | | φ35 | |
| 68 | 22×25 | 0.69 | | | | | | |
| 82 | 22×30 | 0.77 | | | | | | |
| 100 | 22×30 | 0.85 | | | | | | |
| 120 | 22×35 | 0.96 | 25×30 | 0.96 | | | | |
| 150 | 22×40 | 1.11 | 25×30 | 1.06 | | | | |
| 180 | 22×45 | 1.25 | 25×35 | 1.20 | 30×30 | 1.20 | 35×25 | 1.16 |
| 220 | 22×50 | 1.40 | 25×40 | 1.36 | 30×30 | 1.29 | 35×30 | 1.35 |
| 270 | 22×60 | 1.62 | 25×50 | 1.60 | 30×35 | 1.48 | 35×30 | 1.43 |
| 330 | | | 25×55 | 1.78 | 30×40 | 1.67 | 35×35 | 1.63 |
| 390 | | | | | 30×45 | 1.85 | 35×40 | 1.82 |
| 470 | | | | | 30×55 | 2.14 | 35×45 | 2.02 |
| 560 | | | | | 30v60 | 2.34 | 35×50 | 2.23 |
| 680 | | | | | | | 35×55 | 2.44 |

Ripple Current (A r.m.s./120Hz, 105℃)

Case Size φD×L(mm)

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Rubycon:

500VXK390MEFCSN35X40 450VXK270MEFCSN22X50 450VXK330MEFCSN30X35 420VXK560MEFCSN30X50
450VXK470MEFCSN30X45 450VXK680MEFCSN30X60 450VXK220MEFCSN25X35 450VXK270MEFCSN25X40
450VXK390MEFCSN30X40 450VXK270MEFCSN35X25 450VXK820MEFCSN35X55 500VXK150MEFCSN25X30
450VXK470MEFCSN25X60 400VXK1000MEFCSN35X50 400VXK1200MEFCSN35X60 400VXK150MEFCSN22X25
400VXK180MEFCSN22X30 400VXK180MEFCSN25X25 450VXK560MEFCSN35X40 450VXK680MEFCSN35X45
450VXK330MEFCSN35X25 450VXK330MEFCSN35X30 450VXK390MEFCSN25X50 450VXK390MEFCSN35X30
450VXK470MEFCSN35X35 450VXK560MEFCSN30X50 450VXK220MEFCSN22X40 450VXK220MEFCSN30X25
450VXK270MEFCSN25X35 450VXK270MEFCSN30X30 450VXK330MEFCSN22X55 450VXK330MEFCSN25X45
420VXK820MEFCSN35X50 450VXK120MEFCSN22X25 450VXK150MEFCSN22X30 450VXK150MEFCSN25X25
450VXK180MEFCSN22X35 450VXK180MEFCSN25X30 420VXK470MEFCSN25X55 420VXK470MEFCSN30X40
420VXK470MEFCSN35X35 420VXK560MEFCSN35X40 420VXK680MEFCSN30X55 420VXK680MEFCSN35X45
420VXK330MEFCSN30X30 420VXK330MEFCSN35X25 420VXK390MEFCSN22X60 420VXK390MEFCSN25X45
420VXK390MEFCSN30X35 420VXK390MEFCSN35X30 420VXK220MEFCSN25X30 420VXK270MEFCSN22X45
420VXK270MEFCSN25X35 420VXK270MEFCSN30X25 420VXK330MEFCSN22X50 420VXK330MEFCSN25X40
420VXK1000MEFCSN35X60 420VXK120MEFCSN22X25 420VXK150MEFCSN22X30 420VXK180MEFCSN22X35
420VXK180MEFCSN25X25 420VXK220MEFCSN22X40 400VXK560MEFCSN35X35 400VXK680MEFCSN30X50
400VXK680MEFCSN35X35 400VXK680MEFCSN35X40 400VXK820MEFCSN30X55 400VXK820MEFCSN35X45
400VXK390MEFCSN35X25 400VXK470MEFCSN25X50 400VXK470MEFCSN30X35 400VXK470MEFCSN35X30
400VXK560MEFCSN25X55 400VXK560MEFCSN30X40 400VXK330MEFCSN22X50 400VXK330MEFCSN25X40
400VXK330MEFCSN30X30 400VXK390MEFCSN22X55 400VXK390MEFCSN25X45 400VXK390MEFCSN30X30
400VXK220MEFCSN22X35 400VXK220MEFCSN25X30 400VXK270MEFCSN22X40 400VXK270MEFCSN25X30
400VXK270MEFCSN25X35 400VXK270MEFCSN30X25

LifeElectronics
Живое партнерство

**ООО «ЛайфЭлектроникс»** **“LifeElectronics” LLC**

*ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703*

*Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.*

*С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров*

*Мы предлагаем:*

- *Конкурентоспособные цены и скидки постоянным клиентам.*
- *Специальные условия для постоянных клиентов.*
- *Подбор аналогов.*
- *Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.*

- *Приемлемые сроки поставки, возможна ускоренная поставка.*
- *Доставку товара в любую точку России и стран СНГ.*
- *Комплексную поставку.*
- *Работу по проектам и поставку образцов.*
- *Формирование склада под заказчика.*

- *Сертификаты соответствия на поставляемую продукцию (по желанию клиента).*
- *Тестирование поставляемой продукции.*
- *Поставку компонентов, требующих военную и космическую приемку.*
- *Входной контроль качества.*
- *Наличие сертификата ISO.*

*В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.*

*Конструкторский отдел помогает осуществить:*

- *Регистрацию проекта у производителя компонентов.*
- *Техническую поддержку проекта.*
- *Защиту от снятия компонента с производства.*
- *Оценку стоимости проекта по компонентам.*
- *Изготовление тестовой платы монтаж и пусконаладочные работы.*

*Тел: +7 (812) 336 43 04 (многоканальный)*
*Email: org@lifeelectronics.ru*

***www.lifeelectronics.ru***