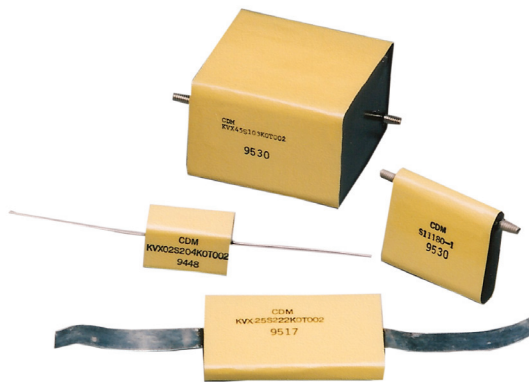


# Type KVx High-Voltage and Pulse, Mica-Paper/Polymer Capacitors

## KVx High-Voltage and Pulse Capacitors Ignite Your World



### Voltage, Current and Temperature to New Heights

KaBOOM! Another exploding foil initiator successfully detonates a military smart bomb thanks to a KVx capacitor. Jet engines roar with KVx ignition capacitors. KVx will ignite your applications with its high reliability, high energy density, high peak current capability, and excellent mechanical properties.

Spanning voltages up to 150 kV, peak currents up to 100 kA, and temperatures from -55 °C to +200 °C, Type KVx capacitors are it for applications like pulse ignition, corona-free signal coupling, high-voltage energy storage and voltage division of high AC voltages.

### Wide Selection of Capabilities

The Type KVx capacitor draws on an unprecedented selection of three dielectric systems, three impregnating systems, and three package types to deliver its superior capabilities.

The dielectric is high-purity mica plates, flexible reconstituted mica paper, or a polymer film/mica paper combination. Mica is the proven reliable dielectric for high voltage and temperature stress, even with continuous corona and radiation. We combine mica synergistically with polymer films to provide pulse capacitors of extremely high energy density (to over .1 J/cc).

High value with three impregnation systems: Epoxy—for best value operation through 125 °C; Polyester Resin—for continuous operation up to 200 °C.

Five Package Types Deliver Custom Fit

**Package Type B:** Bare sections—if you want to design your own package.

**Package Type C:** Metal Can—to be worked out individually.

**Package Type T:** For minimum size and quick avail-ability, the Type T package wraps the rectangular capacitor element with high temperature, heat-cured polyester tape and closes each end with a thick poured section of epoxy. The finished capacitor is sealed and is suitable for potted-in and many low humidity applications.

**Package Type G:** In applications requiring superior mechanical integrity, such as metal clamp mounting, moisture exposure, and mechanical vibration and shock, the Type G package adds that needed strength by vacuum potting the capacitor element in a laminated fiberglass epoxy tube.

**Package Type M:** For the ultimate in environmental protection and operation up to 150 kV, the Type M package provides a fully molded, vacuum-encapsulated system. The final capacitor shape can exactly meet your application mechanical requirements and fit where no other can.

### Operating Life Guaranteed for 10 Years

KVx capacitors are not ordinary high voltage capacitors. Manufacturing processes developed and proven over 50 years of continuous manufacture of transmitting, pulse and high-voltage capacitors allow us to make a remark-able guarantee. Cornell Dubilier guarantees that KVx capacitors will operate ten years or more when operated within specified limits. Cornell Dubilier warrants that if KVx capacitor fails during normal use within 10 years of the date of purchase, it will replace the capacitor at no charge if CDE analysis confirms that the capacitor was not abused by operating beyond product limits for humidity, temperature, voltage, and current.

## Specifications

|                       |                                                                                                                                                                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature Range     | -55 °C to +125 °C standard, -55 °C up to 200 °C available                                                                                                                                                                                    |
| Rated Voltage Range   | 100 V to 150 kVdc<br>Rated Voltage is the maximum peak voltage for actual use.                                                                                                                                                               |
| Capacitance Range     | 1 pF to 10 µF ±0.5% to ±20%, negligible capacitance change, all environments                                                                                                                                                                 |
| Capacitor Size        | Capacitor Size is determined by your choice of package, the capacitance and the rated voltage. For new designs, we will furnish your capacitor's size with our quotation. For a first estimate of capacitor size refer to the Ratings table. |
| Insulation Resistance | 5 GΩµF min at 500 Vdc, 2 min<br>Insulation Resistance is no less than the lesser of 100 GΩ and 5 GΩµF, when measured at 500 Vdc after 2 minutes, and at room temperature (1 GΩ or 25 MΩµF at 125 °C).                                        |

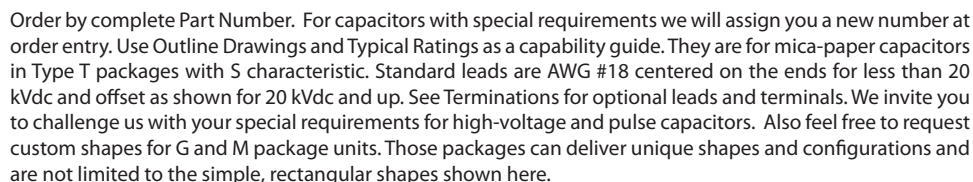
# Type KVx High-Voltage and Pulse, Mica-Paper/Polymer Capacitors

## KVx High-Voltage and Pulse Capacitors Ignite Your World

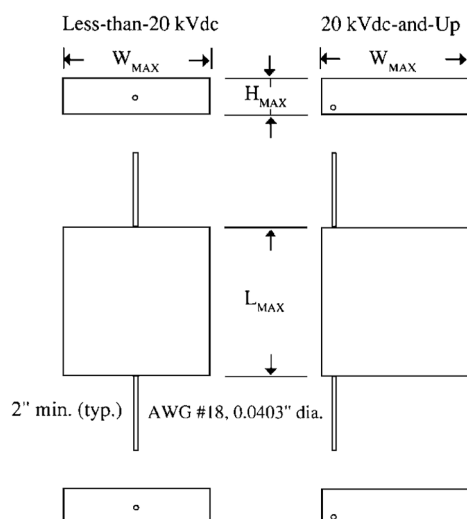
| Package Type                   | Terminations available differ according to package type:<br><table><tr><th>Package Type</th><th>T</th><th>G</th><th>M</th></tr><tr><td>Ribbon leads</td><td>X</td><td>X</td><td>X</td></tr><tr><td>Wire leads</td><td>X</td><td>X</td><td>X</td></tr><tr><td>Threaded studs</td><td>X</td><td>X</td><td>X</td></tr><tr><td>Threaded inserts</td><td></td><td>X</td><td>X</td></tr><tr><td>Turret terminals</td><td></td><td>X</td><td>X</td></tr><tr><td>HV Connectors</td><td></td><td>X</td><td>X</td></tr><tr><td>Quick Connect</td><td></td><td></td><td></td></tr></table>                                                     | Package Type   | T             | G             | M             | Ribbon leads | X    | X            | X    | Wire leads    | X    | X             | X    | Threaded studs | X    | X              | X    | Threaded inserts |  | X | X | Turret terminals |  | X | X | HV Connectors |  | X | X | Quick Connect |  |  |  |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------|--------------|------|--------------|------|---------------|------|---------------|------|----------------|------|----------------|------|------------------|--|---|---|------------------|--|---|---|---------------|--|---|---|---------------|--|--|--|
| Package Type                   | T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | G              | M             |               |               |              |      |              |      |               |      |               |      |                |      |                |      |                  |  |   |   |                  |  |   |   |               |  |   |   |               |  |  |  |
| Ribbon leads                   | X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X              | X             |               |               |              |      |              |      |               |      |               |      |                |      |                |      |                  |  |   |   |                  |  |   |   |               |  |   |   |               |  |  |  |
| Wire leads                     | X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X              | X             |               |               |              |      |              |      |               |      |               |      |                |      |                |      |                  |  |   |   |                  |  |   |   |               |  |   |   |               |  |  |  |
| Threaded studs                 | X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X              | X             |               |               |              |      |              |      |               |      |               |      |                |      |                |      |                  |  |   |   |                  |  |   |   |               |  |   |   |               |  |  |  |
| Threaded inserts               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | X              | X             |               |               |              |      |              |      |               |      |               |      |                |      |                |      |                  |  |   |   |                  |  |   |   |               |  |   |   |               |  |  |  |
| Turret terminals               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | X              | X             |               |               |              |      |              |      |               |      |               |      |                |      |                |      |                  |  |   |   |                  |  |   |   |               |  |   |   |               |  |  |  |
| HV Connectors                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | X              | X             |               |               |              |      |              |      |               |      |               |      |                |      |                |      |                  |  |   |   |                  |  |   |   |               |  |   |   |               |  |  |  |
| Quick Connect                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |               |               |               |              |      |              |      |               |      |               |      |                |      |                |      |                  |  |   |   |                  |  |   |   |               |  |   |   |               |  |  |  |
| Capacitance Within Tolerance   | Capacitance is within tolerance when measured at 1 kHz (1 MHz if C <1000 pF). Standard tolerance:<br>±5% ≥10 kV<br>±10% ≥100 pF & 5 kV<br>±20% <100 pF & 5 kV                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |               |               |               |              |      |              |      |               |      |               |      |                |      |                |      |                  |  |   |   |                  |  |   |   |               |  |   |   |               |  |  |  |
| Dissipation Factor             | Characteristic S –.5%, C –.05%<br>Dissipation Factor is no more than 0.5%, S characteristic, when measured at 1 kHz (1 MHz if C<1000 pF) and room temperature. Lower dissipation factor specification is available, to 0.1% for mica-plate capacitors, characteristic C.                                                                                                                                                                                                                                                                                                                                                            |                |               |               |               |              |      |              |      |               |      |               |      |                |      |                |      |                  |  |   |   |                  |  |   |   |               |  |   |   |               |  |  |  |
| Life Test                      | Subject capacitors to rated maximum temperature ±3 °C with rated voltage applied for 2000 (+72, -2) hours. There will be no visual damage and the capacitance will not have changed more than the greater of ±3% and ±1 pF.                                                                                                                                                                                                                                                                                                                                                                                                         |                |               |               |               |              |      |              |      |               |      |               |      |                |      |                |      |                  |  |   |   |                  |  |   |   |               |  |   |   |               |  |  |  |
| Leads                          | Ribbon leads are typically tin-plated copper, 0.005" x 0.5"x2" on small units (<1 in3) and 0.020" x 0.987" x 2" or larger.<br>Wire leads are typically bare AWG #18 or #20, 2" minimum.                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |               |               |               |              |      |              |      |               |      |               |      |                |      |                |      |                  |  |   |   |                  |  |   |   |               |  |   |   |               |  |  |  |
| Thread Studs                   | Threaded studs or inserts are standard from 4-40 to 1/4-20 and typically tin-plated brass.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |               |               |               |              |      |              |      |               |      |               |      |                |      |                |      |                  |  |   |   |                  |  |   |   |               |  |   |   |               |  |  |  |
| Terminals                      | Turret terminals are brass with silver or tinplate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |               |               |               |              |      |              |      |               |      |               |      |                |      |                |      |                  |  |   |   |                  |  |   |   |               |  |   |   |               |  |  |  |
| Connectors                     | High voltage connectors are available with creepage, tracking and clearance distances to meet requirements up to 150 kV.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |               |               |               |              |      |              |      |               |      |               |      |                |      |                |      |                  |  |   |   |                  |  |   |   |               |  |   |   |               |  |  |  |
| Markings                       | ID Marking includes manufacturer, CDM, capacitance in µF, rated voltage, identification number and date code YYWW (2 digit year and week of manufacture).                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |               |               |               |              |      |              |      |               |      |               |      |                |      |                |      |                  |  |   |   |                  |  |   |   |               |  |   |   |               |  |  |  |
| Life Test Vibration Resistance | Subject the capacitors to simple harmonic motion with an amplitude of 0.06 inches; vary the frequency uniformly from 10 to 55 Hz and return to 10 Hz, all in one minute. Repeat that cycle continuously for 2 hours in each of 3 mutually perpendicular directions. There will be no visual damage, the capacitance will not change more than the greater of ±3% and ±1 pF, and the insulation resistance will be no less than the lesser of 7.5 GΩ and 5 GΩµF.                                                                                                                                                                     |                |               |               |               |              |      |              |      |               |      |               |      |                |      |                |      |                  |  |   |   |                  |  |   |   |               |  |   |   |               |  |  |  |
| Withstand Voltage              | Apply a DC test voltage for 5 seconds with the charge and discharge current limited to one ampere and with the capacitor immersed in an insulating fluid when needed to prevent external arcing.<br>Look up the test voltage as a multiple of the Rated Voltage below:<br><table><tr><td>Rated Voltage</td><td>T est Voltage</td><td>Rated Voltage</td><td>T est Voltage</td></tr><tr><td>0 to 8 kV</td><td>200%</td><td>8.1 to 10 kV</td><td>175%</td></tr><tr><td>10.1 to 12 kV</td><td>150%</td><td>12.1 to 20 kV</td><td>140%</td></tr><tr><td>20.1 to 30 kV</td><td>130%</td><td>30.1 kV and up</td><td>120%</td></tr></table> | Rated Voltage  | T est Voltage | Rated Voltage | T est Voltage | 0 to 8 kV    | 200% | 8.1 to 10 kV | 175% | 10.1 to 12 kV | 150% | 12.1 to 20 kV | 140% | 20.1 to 30 kV  | 130% | 30.1 kV and up | 120% |                  |  |   |   |                  |  |   |   |               |  |   |   |               |  |  |  |
| Rated Voltage                  | T est Voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Rated Voltage  | T est Voltage |               |               |              |      |              |      |               |      |               |      |                |      |                |      |                  |  |   |   |                  |  |   |   |               |  |   |   |               |  |  |  |
| 0 to 8 kV                      | 200%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8.1 to 10 kV   | 175%          |               |               |              |      |              |      |               |      |               |      |                |      |                |      |                  |  |   |   |                  |  |   |   |               |  |   |   |               |  |  |  |
| 10.1 to 12 kV                  | 150%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12.1 to 20 kV  | 140%          |               |               |              |      |              |      |               |      |               |      |                |      |                |      |                  |  |   |   |                  |  |   |   |               |  |   |   |               |  |  |  |
| 20.1 to 30 kV                  | 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 30.1 kV and up | 120%          |               |               |              |      |              |      |               |      |               |      |                |      |                |      |                  |  |   |   |                  |  |   |   |               |  |   |   |               |  |  |  |
| Moisture Resistance            | Moisture Resistance: Subject G or M package capacitors to 40 ±2 °C at 90 to 95% humidity for 500 (+24, –0) hours. Return to room ambient for 24 hours. There will be no visual damage, the capacitance will not change more than the greater of ±4% or 1 pF, and the insulation resistance will be no less than the lesser of 7.5 GΩ and 5 GΩµF. Moisture resistance is not specified for T package capacitors and product warranty is void if used regularly beyond 50% relative humidity.                                                                                                                                         |                |               |               |               |              |      |              |      |               |      |               |      |                |      |                |      |                  |  |   |   |                  |  |   |   |               |  |   |   |               |  |  |  |

## KVx High-Voltage and Pulse Capacitors Ignite Your World

## Part Numbering System



## Outline Drawing



# Type KVx High-Voltage and Pulse, Mica-Paper/Polymer Capacitors

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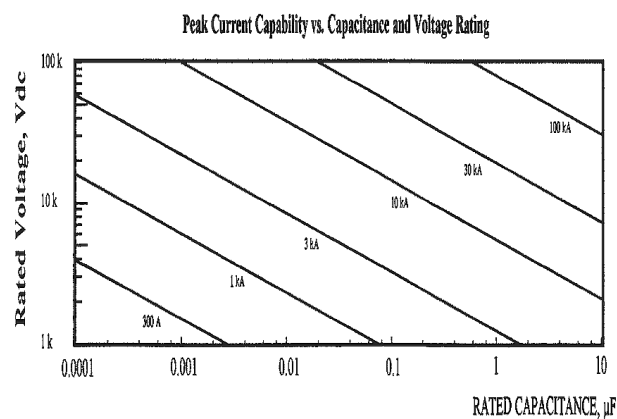
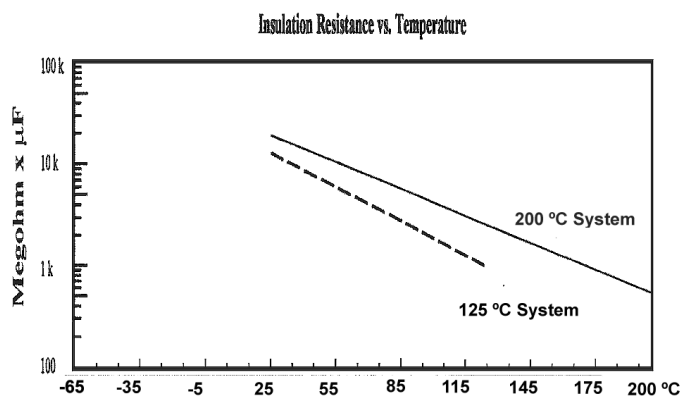
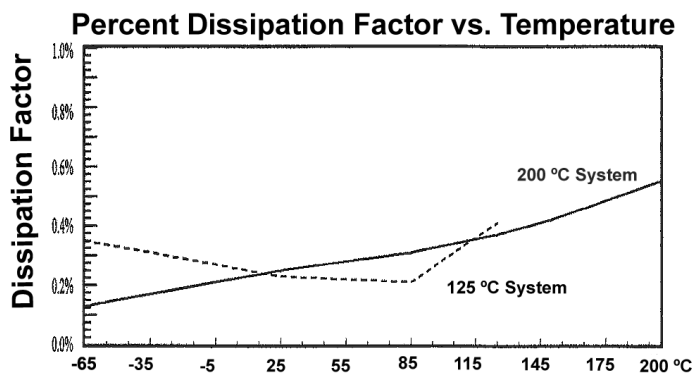
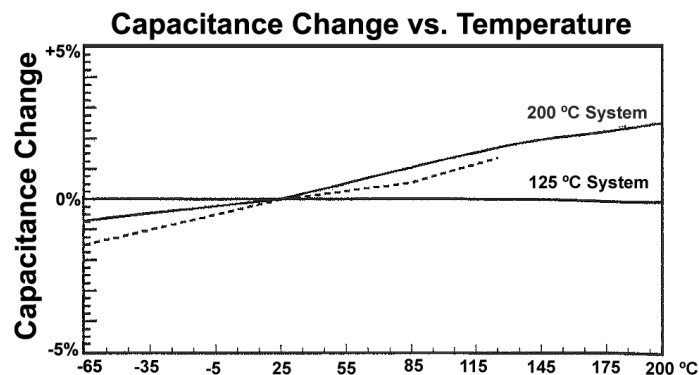
### Ratings

| Case Dimensions (in)       |                        |                            |                           |                            |             |                           | Case Dimensions (in)         |                        |                            |                           |                            |             |                           |
|----------------------------|------------------------|----------------------------|---------------------------|----------------------------|-------------|---------------------------|------------------------------|------------------------|----------------------------|---------------------------|----------------------------|-------------|---------------------------|
| Cap.<br>(μF)               | Catalog<br>Part Number | Length<br>L <sub>MAX</sub> | Width<br>W <sub>MAX</sub> | Height<br>H <sub>MAX</sub> | Max.<br>PRF | Max.<br>I <sub>PEAK</sub> | Cap.<br>(μF)                 | Catalog<br>Part Number | Length<br>L <sub>MAX</sub> | Width<br>W <sub>MAX</sub> | Height<br>H <sub>MAX</sub> | Max.<br>PRF | Max.<br>I <sub>PEAK</sub> |
| 1 kVdc (500 V repetitive)  |                        |                            |                           |                            |             |                           | 8 kVdc (4 kV repetitive)     |                        |                            |                           |                            |             |                           |
| 0.047                      | KVX01S473K0T001        | 1.81                       | 1.02                      | 0.14                       | 14000       | 40                        | 0.0033                       | KVX08S332K0T001        | 2.06                       | 1.54                      | 0.16                       | 5200        | 80                        |
| 0.1                        | KVX01S104K0T001        | 1.81                       | 1.47                      | 0.17                       | 9500        | 50                        | 0.01                         | KVX08S103K0T001        | 3.06                       | 1.50                      | 0.20                       | 2500        | 250                       |
| 0.22                       | KVX01S224K0T001        | 2.06                       | 1.74                      | 0.24                       | 6000        | 60                        | 0.022                        | KVX08S223K0T001        | 3.06                       | 2.08                      | 0.23                       | 1600        | 500                       |
| 0.47                       | KVX01S474K0T001        | 3.06                       | 1.98                      | 0.24                       | 4500        | 100                       | 0.1                          | KVX08S104K0T001        | 3.06                       | 2.14                      | 0.76                       | 480         | 900                       |
| 0.68                       | KVX01S684K0T001        | 3.56                       | 2.04                      | 0.27                       | 3800        | 150                       | 0.68                         | KVX08S684K0T001        | 4.56                       | 2.97                      | 1.94                       | 190         | 1700                      |
| 2 kVdc (1 kV repetitive)   |                        |                            |                           |                            |             |                           | 10 kVdc (5 kV repetitive)    |                        |                            |                           |                            |             |                           |
| 1                          | KVX01S105K0T001        | 3.81                       | 2.19                      | 0.35                       | 3100        | 300                       | 0.001                        | KVX10S102K0T001        | 1.81                       | 1.48                      | 0.13                       | 9100        | 25                        |
| 2.2                        | KVX01S225K0T001        | 4.56                       | 3.04                      | 0.41                       | 2300        | 700                       | 0.0022                       | KVX10S222K0T001        | 2.81                       | 1.46                      | 0.13                       | 6200        | 75                        |
| 3.3                        | KVX01S335K0T001        | 4.56                       | 3.29                      | 0.55                       | 1700        | 1000                      | 0.01                         | KVX10S103K0T001        | 3.56                       | 1.69                      | 0.19                       | 2100        | 250                       |
| 4.7                        | KVX01S475K0T001        | 4.56                       | 3.09                      | 0.84                       | 1300        | 1500                      | 0.047                        | KVX10S473K0T001        | 4.56                       | 2.84                      | 0.28                       | 940         | 500                       |
| 6.8                        | KVX01S685K0T001        | 3.06                       | 3.07                      | 1.93                       | 900         | 2000                      | 0.33                         | KVX10S334K0T001        | 4.56                       | 2.88                      | 1.64                       | 225         | 1000                      |
| 3 kVdc (1.5 kV repetitive) |                        |                            |                           |                            |             |                           | 12 kVdc (6 kV repetitive)    |                        |                            |                           |                            |             |                           |
| 0.033                      | KVX02S333K0T001        | 1.56                       | 1.07                      | 0.18                       | 4800        | 70                        | 0.01                         | KVX12S103K0T001        | 4.06                       | 1.89                      | 0.20                       | 1800        | 300                       |
| 0.68                       | KVX02S684K0T001        | 3.56                       | 1.96                      | 0.40                       | 1000        | 200                       | 0.033                        | KVX12S333K0T001        | 4.56                       | 2.82                      | 0.27                       | 920         | 600                       |
| 1                          | KVX02S105K0T001        | 3.81                       | 2.41                      | 0.47                       | 900         | 500                       | 0.33                         | KVX12S334K0T001        | 4.56                       | 3.63                      | 1.93                       | 200         | 1100                      |
| 3.3                        | KVX02S335K0T001        | 4.56                       | 2.79                      | 0.91                       | 430         | 1000                      | 15 kVdc (7.5 kV repetitive)  |                        |                            |                           |                            |             |                           |
| 4.7                        | KVX02S475K0T001        | 3.56                       | 2.37                      | 2.06                       | 320         | 1500                      | 0.00047                      | KVX15S471K0T001        | 2.06                       | 1.81                      | 0.14                       | 12000       | 30                        |
| 4 kVdc (2 kV repetitive)   |                        |                            |                           |                            |             |                           | 0.00068                      | KVX15S681K0T001        | 2.06                       | 1.25                      | 0.17                       | 6000        | 40                        |
| 0.01                       | KVX03S103K0T001        | 1.31                       | 1.10                      | 0.19                       | 6200        | 130                       | 0.001                        | KVX15S102K0T001        | 3.06                       | 1.64                      | 0.15                       | 7500        | 50                        |
| 0.022                      | KVX03S223K0T001        | 1.56                       | 1.24                      | 0.20                       | 3700        | 150                       | 0.01                         | KVX15S103K0T001        | 4.31                       | 2.10                      | 0.26                       | 1400        | 300                       |
| 0.33                       | KVX03S334K0T001        | 3.81                       | 2.24                      | 0.34                       | 1000        | 200                       | 0.22                         | KVX15S224K0T001        | 4.56                       | 3.76                      | 2.15                       | 210         | 2000                      |
| 0.47                       | KVX03S474K0T001        | 3.56                       | 2.41                      | 0.50                       | 800         | 300                       | 20 kVdc (10 kV repetitive)   |                        |                            |                           |                            |             |                           |
| 1                          | KVX03S105K0T001        | 3.56                       | 2.08                      | 1.15                       | 450         | 600                       | 0.00033                      | KVX20S331K0T001        | 1.81                       | 1.60                      | 0.18                       | 7800        | 30                        |
| 3.3                        | KVX03S335K0T001        | 3.81                       | 2.80                      | 2.25                       | 250         | 1500                      | 0.001                        | KVX20S102K0T001        | 3.06                       | 1.66                      | 0.19                       | 4400        | 70                        |
| 5 kVdc (2.5 kV repetitive) |                        |                            |                           |                            |             |                           | 0.01                         | KVX20S103K0T001        | 3.81                       | 2.24                      | 0.42                       | 810         | 1100                      |
| 0.0068                     | KVX04S682K0T001        | 1.56                       | 1.32                      | 0.15                       | 6700        | 60                        | 0.047                        | KVX20S473K0T001        | 4.31                       | 2.86                      | 1.02                       | 310         | 1500                      |
| 0.01                       | KVX04S103K0T001        | 1.81                       | 1.32                      | 0.15                       | 5300        | 70                        | 25 kVdc (12.5 kV repetitive) |                        |                            |                           |                            |             |                           |
| 0.1                        | KVX04S104K0T001        | 3.06                       | 2.00                      | 0.26                       | 1400        | 700                       | 0.0001                       | KVX25S101K0T001        | 2.06                       | 1.16                      | 0.17                       | 14000       | 20                        |
| 0.22                       | KVX04S224K0T001        | 4.06                       | 2.47                      | 0.30                       | 1000        | 800                       | 0.00022                      | KVX25S221K0T001        | 2.06                       | 1.23                      | 0.25                       | 7200        | 30                        |
| 1                          | KVX04S105K0T001        | 3.81                       | 2.85                      | 1.04                       | 330         | 1000                      | 0.0047                       | KVX25S471K0T001        | 3.06                       | 1.24                      | 0.27                       | 5000        | 50                        |
| 2.2                        | KVX04S225K0T001        | 3.81                       | 2.81                      | 2.32                       | 220         | 1500                      | 0.001                        | KVX25S102K0T001        | 3.06                       | 2.29                      | 0.20                       | 3800        | 120                       |
| 6 kVdc (3 kV repetitive)   |                        |                            |                           |                            |             |                           | 0.0022                       | KVX25S222K0T001        | 3.06                       | 1.59                      | 0.45                       | 1500        | 300                       |
| 0.0047                     | KVX05S472K0T001        | 1.81                       | 1.24                      | 0.14                       | 6700        | 60                        | 0.0033                       | KVX25S332K0T001        | 3.06                       | 2.02                      | 0.49                       | 1200        | 350                       |
| 0.01                       | KVX05S103K0T001        | 2.06                       | 1.26                      | 0.17                       | 3700        | 100                       | 0.0047                       | KVX25S472K0T001        | 3.06                       | 2.45                      | 0.53                       | 1000        | 600                       |
| 0.068                      | KVX05S683K0T001        | 3.56                       | 1.82                      | 0.25                       | 1400        | 500                       | 0.01                         | KVX25S103K0T001        | 4.06                       | 2.35                      | 0.55                       | 610         | 1000                      |
| 0.1                        | KVX05S104K0T001        | 2.06                       | 1.78                      | 0.65                       | 720         | 1100                      | 0.033                        | KVX25S333K0T001        | 4.56                       | 2.49                      | 1.29                       | 290         | 2000                      |
| 1                          | KVX05S105K0T001        | 4.56                       | 2.84                      | 1.27                       | 260         | 2000                      | 30 kVdc (15 kV repetitive)   |                        |                            |                           |                            |             |                           |
| 7 kVdc (3.5 kV repetitive) |                        |                            |                           |                            |             |                           | 0.0001                       | KVX30S101K0T001        | 2.06                       | 1.58                      | 0.22                       | 13000       | 30                        |
| 0.01                       | KVX06S103K0T001        | 2.06                       | 1.30                      | 0.19                       | 2700        | 120                       | 0.001                        | KVX30S102K0T001        | 3.06                       | 1.70                      | 0.30                       | 2200        | 150                       |
| 0.022                      | KVX06S223K0T001        | 2.06                       | 1.60                      | 0.25                       | 1600        | 140                       | 0.01                         | KVX30S103K0T001        | 4.81                       | 2.78                      | 0.55                       | 580         | 1200                      |
| 0.1                        | KVX06S104K0T001        | 3.06                       | 2.22                      | 0.38                       | 720         | 1000                      | 0.022                        | KVX30S223K0T001        | 4.81                       | 2.89                      | 1.11                       | 330         | 1800                      |
| 1                          | KVX06S105K0T001        | 4.56                       | 2.94                      | 1.57                       | 210         | 2000                      |                              |                        |                            |                           |                            |             |                           |

# Type KVx High-Voltage and Pulse, Mica-Paper/Polymer Capacitors

## KVx High-Voltage and Pulse Capacitors Ignite Your World

### Typical Performance Curves



These are typical curves for KV<sup>x</sup> capacitors with mica-paper dielectric. Other dielectric systems are available with improved characteristics. Please contact us for information.