

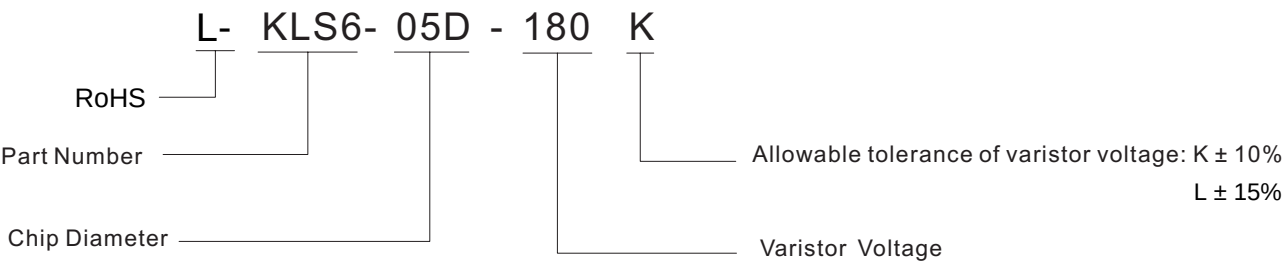


# KLS ELECTRONIC CO.,LTD.

壓敏電阻  
Varistor



## ORDER INFORMATION



## Dimension (Unit: mm)

| VDR<br>規格 | 電 壓 範 圍<br>Range of voltage (V) | 尺寸Dimensions(mm) |         |             |              |       |       |
|-----------|---------------------------------|------------------|---------|-------------|--------------|-------|-------|
|           |                                 | D max            | Tmax    | F $\pm$ 0.8 | d $\pm$ 0.05 | H max | L min |
| 05D       | 18-68V                          | 6.5              | 2.5~4.8 | 5           | 0.6          | 9.5   | 15    |
|           | 82-680V                         | 6.5              | 2.6~5.0 | 5           | 0.6          |       |       |
| 07D       | 18-68V                          | 8.5              | 2.5~4.8 | 5           | 0.6          | 11.5  | 15    |
|           | 82-820V                         | 8.5              | 2.6~5.5 | 5           | 0.6          |       |       |
| 10D       | 18-68V                          | 11.5             | 2.5~4.8 | 7.5         | 0.8          | 14.5  | 15    |
|           | 82-1100V                        | 11.8             | 2.6~9.7 | 7.5         | 0.8          |       |       |
| 14D       | 18-68V                          | 15.5             | 2.5~4.8 | 7.5         | 0.8          | 18.5  | 15    |
|           | 82-1800V                        | 15.8             | 2.8~15  | 7.5         | 0.8          |       |       |
| 18D       | 18-68V                          | 19.5             | 2.5~4.8 | 7.5         | 0.8          | 22.5  | 15    |
|           | 82-1800V                        | 19.8             | 2.8~15  | 7.5         | 0.8          |       |       |
| 20D       | 18-68V                          | 21.5             | 2.5~4.8 | 10          | 1            | 24.5  | 15    |
|           | 82-1800V                        | 21.8             | 2.5~15  | 10          | 1            |       |       |

## Product Certifications and Main Electrical Parameters

| 認證標準及編號                |                                  | Approval Standard And File Number |                 |                   |         |
|------------------------|----------------------------------|-----------------------------------|-----------------|-------------------|---------|
| Related State Standard |                                  | Certificate No.                   | Part NO.        | Approved Monogram |         |
| 相關國家標準                 |                                  | 證書編號                              | 產品型號            | 認證標志              |         |
| CUL                    | UL1449 TYPE 3                    | E317616                           | 05D180L-32D182K |                   | USA     |
|                        | CSA                              |                                   | 14D820K-32D182K |                   | Canada  |
|                        | UL1449 TYPE 4                    |                                   |                 |                   |         |
| VDE                    | IEC60950-1 ANNEX Q<br>IEC61051-1 | 40028836                          | 05D180L-20D681K |                   | Germany |
| CQC                    | GB-4943.1                        | CQC12001076477                    | 05D(180L-751K)  |                   | China   |
|                        |                                  | CQC12001076478                    | 07D(180L-821K)  |                   |         |
|                        | GB-8898                          | CQC12001076479                    | 10D(180L-112K)  |                   |         |
|                        | GB/T10193-1997                   | CQC12001078540                    | 14D(180L-182K)  |                   |         |
|                        | GB/T10194-1997                   | CQC12001076476                    | 20D(180L-182K)  |                   |         |



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Varistor



## 05D Standard and High Energy Series

| Part No. | Maximum Allowable Voltage |     | Energy 能量 /耐量 |             | Withstanding Surge Current |        |                 |        | Rated POWER | Varistor Voltage | Max Clamping Voltage | Capacitance    |
|----------|---------------------------|-----|---------------|-------------|----------------------------|--------|-----------------|--------|-------------|------------------|----------------------|----------------|
| 產品型號     | 最大容許回路電壓                  |     | 10/1000 μ S   |             | 最大峰值電流 8/20 μ S            |        |                 |        | 最大額定功率      | 壓敏電壓             | 最大限制電壓               | 電容量            |
|          | ACrms                     | DC  | Standard      | High Energy | Standard (A)               |        | High Energy (A) |        | (W)         | AT 0.1mA         | AT 1A                | 1kHz           |
|          | (V)                       | (V) | (J)           | (J)         | 1 TIME                     | 2 TIME | 1 TIME          | 2 TIME |             | (V)              | (V)                  | P <sup>F</sup> |
| 05D120M  | 7                         | 9   | 0.3           | 0.4         | 100                        | 50     | 250             | 125    | 0.01        | 12(9.6-14.4)     | 25                   | 1700           |
| 05D180L  | 10                        | 14  | 0.4           | 0.6         |                            |        |                 |        |             | 18(15-21)        | 38                   | 1400           |
| 05D220K  | 14                        | 18  | 0.6           | 0.7         |                            |        |                 |        |             | 22(20-24)        | 43                   | 1150           |
| 05D270K  | 17                        | 22  | 0.7           | 0.9         |                            |        |                 |        |             | 27(24-30)        | 53                   | 930            |
| 05D330K  | 20                        | 26  | 0.8           | 1.1         |                            |        |                 |        |             | 33(30-36)        | 65                   | 760            |
| 05D390K  | 25                        | 31  | 1.1           | 1.2         |                            |        |                 |        |             | 39(35-43)        | 77                   | 640            |
| 05D470K  | 30                        | 38  | 1.4           | 1.5         |                            |        |                 |        |             | 47(42-52)        | 93                   | 530            |
| 05D560K  | 35                        | 45  | 1.5           | 1.8         |                            |        |                 |        |             | 56(50-62)        | 110                  | 450            |
| 05D680K  | 40                        | 56  | 1.8           | 2.2         |                            |        |                 |        |             | 68(61-75)        | 135                  | 370            |

| Part No. | Maximum Allowable Voltage<br>最大容許回路電壓 |     | Energy 能量 /耐量<br>10/1000 μ S |             | Withstanding Surge Current<br>最大峰值電流 8/20 μ S |        |                 |        | Rated POWER<br>最大額定功率 | Varistor Voltage<br>壓敏電壓 | Max Clamping Voltage<br>最大限制電壓 | Capacitance<br>電容量<br>(參考值) |
|----------|---------------------------------------|-----|------------------------------|-------------|-----------------------------------------------|--------|-----------------|--------|-----------------------|--------------------------|--------------------------------|-----------------------------|
| 產品型號     | ACrms                                 | DC  | Standard                     | High Energy | Standard (A)                                  |        | High Energy (A) |        | (W)                   | AT 0.1mA                 | AT 5A                          | 1kHz                        |
|          | (V)                                   | (V) | (J)                          | (J)         | 1 TIME                                        | 2 TIME | 1 TIME          | 2 TIME |                       | (V)                      | (V)                            | P <sup>F</sup>              |
| 05D820K  | 50                                    | 65  | 2.6                          | 3.8         | 400                                           | 200    | 800             | 600    | 0.1                   | 82(74-90)                | 135                            | 300                         |
| 05D101K  | 60                                    | 85  | 2.8                          | 4.0         |                                               |        |                 |        |                       | 100(90-110)              | 165                            | 250                         |
| 05D121K  | 75                                    | 100 | 4.2                          | 5.0         |                                               |        |                 |        |                       | 120(108-132)             | 200                            | 210                         |
| 05D151K  | 95                                    | 125 | 4.2                          | 7.0         |                                               |        |                 |        |                       | 150(135-165)             | 250                            | 165                         |
| 05D181K  | 115                                   | 150 | 5.6                          | 8.0         |                                               |        |                 |        |                       | 180(162-198)             | 300                            | 140                         |
| 05D201K  | 130                                   | 170 | 7.7                          | 8.7         |                                               |        |                 |        |                       | 200(185-225)             | 330                            | 125                         |
| 05D221K  | 140                                   | 180 | 8.8                          | 9.0         |                                               |        |                 |        |                       | 220(198-242)             | 360                            | 110                         |
| 05D241K  | 150                                   | 200 | 9.8                          | 11.0        |                                               |        |                 |        |                       | 240(216-264)             | 395                            | 110                         |
| 05D271K  | 175                                   | 225 | 10.5                         | 13.0        |                                               |        |                 |        |                       | 270(243-297)             | 455                            | 95                          |
| 05D301K  | 190                                   | 250 | 11.8                         | 14.0        |                                               |        |                 |        |                       | 300(270-330)             | 505                            | 85                          |
| 05D331K  | 210                                   | 275 | 14.0                         | 14.5        |                                               |        |                 |        |                       | 330(297-363)             | 550                            | 75                          |
| 05D361K  | 230                                   | 300 | 14.0                         | 16.0        |                                               |        |                 |        |                       | 360(324-396)             | 595                            | 70                          |
| 05D391K  | 250                                   | 320 | 15.4                         | 17.0        |                                               |        |                 |        |                       | 390(351-429)             | 650                            | 65                          |
| 05D431K  | 275                                   | 350 | 16.8                         | 20.0        |                                               |        |                 |        |                       | 430(387-473)             | 710                            | 60                          |
| 05D471K  | 300                                   | 385 | 18.2                         | 20.8        |                                               |        |                 |        |                       | 470(423-517)             | 775                            | 55                          |
| 05D511K  | 320                                   | 415 | 19.6                         | 21.0        |                                               |        |                 |        |                       | 510(459-561)             | 845                            | 50                          |
| 05D561K  | 350                                   | 460 | 19.6                         | 23.0        |                                               |        |                 |        |                       | 560(504-616)             | 920                            | 45                          |
| 05D621K  | 385                                   | 505 | 21.0                         | 25.0        |                                               |        |                 |        |                       | 620(558-682)             | 1025                           | 40                          |
| 05D681K  | 420                                   | 560 | 21.0                         | 29.0        |                                               |        |                 |        |                       | 680(612-748)             | 1120                           | 35                          |
| 05D751K  | 460                                   | 615 | 22.4                         | 32.0        |                                               |        |                 |        |                       | 750(675-825)             | 1240                           | 30                          |

Working Temperature:- 40°C~+85°C

Storage Temperature:- 40°C ~+125°C



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## 07D Standard and High Energy Series

| Part No. | Maximum           |     | Energy          |             | Withstanding        |        |                 |        | Rated POWER | Varistor     | Max Clamping | Capacitance    |
|----------|-------------------|-----|-----------------|-------------|---------------------|--------|-----------------|--------|-------------|--------------|--------------|----------------|
| 產品型號     | Allowable Voltage |     | 能量 / 耐量         |             | Surge Current       |        |                 |        | 最大額定        | Voltage      | Voltage      | 電容量            |
|          | 最大容許回路電壓          |     | 10/1000 $\mu$ S |             | 最大峰值電流 8/20 $\mu$ S |        |                 |        | 功率          | 壓敏電壓         | 最大限制電壓       | (參考值)          |
|          | ACrms             | DC  | Standard        | High Energy | Standard (A)        |        | High Energy (A) |        | (W)         | AT 1mA       | AT 2.5A      | 1KHz           |
|          | (V)               | (V) | (J)             | (J)         | 1 TIME              | 2 TIME | 1 TIME          | 2 TIME |             | (V)          | (V)          | P <sup>F</sup> |
| 07D120M  | 7                 | 9   | 0.3             | 0.4         | 250                 | 125    | 500             | 250    | 0.02        | 12(9.6-14.4) | 25           | 1700           |
| 07D180L  | 10                | 14  | 2.1             | 2.4         |                     |        |                 |        |             | 18(15-21)    | 38           | 1400           |
| 07D220K  | 14                | 18  | 2.4             | 2.8         |                     |        |                 |        |             | 22(20-24)    | 43           | 1150           |
| 07D270K  | 17                | 22  | 2.8             | 3.0         |                     |        |                 |        |             | 27(24-30)    | 53           | 930            |
| 07D330K  | 20                | 26  | 3.5             | 4           |                     |        |                 |        |             | 33(30-36)    | 65           | 760            |
| 07D390K  | 25                | 31  | 4.2             | 4.6         |                     |        |                 |        |             | 39(35-43)    | 77           | 640            |
| 07D470K  | 30                | 38  | 5.0             | 5.2         |                     |        |                 |        |             | 47(42-52)    | 93           | 530            |
| 07D560K  | 35                | 45  | 6.2             | 6.5         |                     |        |                 |        |             | 56(50-62)    | 110          | 450            |
| 07D680K  | 40                | 56  | 7.2             | 7.5         |                     |        |                 |        |             | 68(61-75)    | 135          | 370            |

| Part No. | Maximum           |     | Energy          |             | Withstanding        |        |                 |        | Rated POWER | Varistor     | Max Clamping | Capacitance    |
|----------|-------------------|-----|-----------------|-------------|---------------------|--------|-----------------|--------|-------------|--------------|--------------|----------------|
| 產品型號     | Allowable Voltage |     | 能量 / 耐量         |             | Surge Current       |        |                 |        | 最大額定        | Voltage      | Voltage      | 電容量            |
|          | 最大容許回路電壓          |     | 10/1000 $\mu$ S |             | 最大峰值電流 8/20 $\mu$ S |        |                 |        | 功率          | 壓敏電壓         | 最大限制電壓       | (參考值)          |
|          | ACrms             | DC  | Standard        | High Energy | Standard (A)        |        | High Energy (A) |        | (W)         | AT 1mA       | AT 10A       | 1KHz           |
|          | (V)               | (V) | (J)             | (J)         | 1 TIME              | 2 TIME | 1 TIME          | 2 TIME |             | (V)          | (V)          | P <sup>F</sup> |
| 07D820K  | 50                | 65  | 9.8             | 10.0        | 1200                | 600    | 1750            | 1250   | 0.25        | 82(74-90)    | 135          | 600            |
| 07D101K  | 60                | 85  | 11.6            | 12.0        |                     |        |                 |        |             | 100(90-110)  | 165          | 500            |
| 07D121K  | 75                | 100 | 14.0            | 14.2        |                     |        |                 |        |             | 120(108-132) | 200          | 420            |
| 07D151K  | 95                | 125 | 16.8            | 17.0        |                     |        |                 |        |             | 150(135-165) | 250          | 330            |
| 07D181K  | 115               | 150 | 18.2            | 22.0        |                     |        |                 |        |             | 180(162-198) | 300          | 280            |
| 07D201K  | 130               | 170 | 25.2            | 27.0        |                     |        |                 |        |             | 200(185-225) | 330          | 250            |
| 07D221K  | 140               | 180 | 26.5            | 29.0        |                     |        |                 |        |             | 220(198-242) | 360          | 230            |
| 07D241K  | 150               | 200 | 28.0            | 30.0        |                     |        |                 |        |             | 240(216-264) | 395          | 210            |
| 07D271K  | 175               | 225 | 32.2            | 33.0        |                     |        |                 |        |             | 270(243-297) | 455          | 185            |
| 07D301K  | 190               | 250 | 35.0            | 36.0        |                     |        |                 |        |             | 300(270-330) | 505          | 165            |
| 07D331K  | 210               | 275 | 37.8            | 38.0        |                     |        |                 |        |             | 330(297-363) | 550          | 150            |
| 07D361K  | 230               | 300 | 42.0            | 43.0        |                     |        |                 |        |             | 360(324-396) | 595          | 140            |
| 07D391K  | 250               | 320 | 46.2            | 47.0        |                     |        |                 |        |             | 390(351-429) | 650          | 130            |
| 07D431K  | 275               | 350 | 50.4            | 51.0        |                     |        |                 |        |             | 430(387-473) | 710          | 115            |
| 07D471K  | 300               | 385 | 56.0            | 57.0        |                     |        |                 |        |             | 470(423-517) | 775          | 105            |
| 07D511K  | 320               | 415 | 57.0            | 58.0        |                     |        |                 |        |             | 510(459-561) | 845          | 100            |
| 07D561K  | 350               | 460 | 58.0            | 61.0        |                     |        |                 |        |             | 560(504-616) | 920          | 90             |
| 07D621K  | 385               | 505 | 61.6            | 68.0        |                     |        |                 |        |             | 620(558-682) | 1025         | 80             |
| 07D681K  | 420               | 560 | 62.5            | 75.0        |                     |        |                 |        |             | 680(612-748) | 1120         | 75             |
| 07D751K  | 460               | 615 | 67.2            | 80.0        |                     |        |                 |        |             | 750(675-825) | 1240         | 65             |
| 07D821K  | 510               | 670 | 72.0            | 87.0        |                     |        |                 |        |             | 820(738-902) | 1355         | 60             |



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## 10D Standard and High Energy Series

| Part No. | Maximum                       |     | Energy                 |                | Withstanding                     |        |                 |        | Rated POWER | Varistor        | Max Clamping      | Capacitance    |
|----------|-------------------------------|-----|------------------------|----------------|----------------------------------|--------|-----------------|--------|-------------|-----------------|-------------------|----------------|
| 產品型號     | Allowable Voltage<br>最大容許回路電壓 |     | 能量 / 耐量<br>10/1000 μ S |                | Surge Current<br>最大峰值電流 8/20 μ S |        |                 |        | 最大額定<br>功率  | Voltage<br>壓敏電壓 | Voltage<br>最大限制電壓 | 電容量<br>(參考值)   |
|          | ACrms                         | DC  | Standard               | High<br>Energy | Standard (A)                     |        | High Energy (A) |        | (W)         | AT 1mA          | AT 5A             | 1KHz           |
|          | (V)                           | (V) | (J)                    | (J)            | 1 TIME                           | 2 TIME | 1 TIME          | 2 TIME |             | (V)             | (V)               | P <sup>F</sup> |
| 10D180L  | 10                            | 14  | 2.8                    | 3.0            | 500                              | 250    | 1000            | 500    | 0.05        | 18(15-21)       | 38                | 5600           |
| 10D220K  | 14                            | 18  | 4.5                    | 5.0            |                                  |        |                 |        |             | 22(20-24)       | 43                | 4500           |
| 10D270K  | 17                            | 22  | 6.0                    | 6.5            |                                  |        |                 |        |             | 27(24-30)       | 53                | 3700           |
| 10D330K  | 20                            | 26  | 7.4                    | 8.0            |                                  |        |                 |        |             | 33(30-36)       | 65                | 3000           |
| 10D390K  | 25                            | 31  | 9.1                    | 9.5            |                                  |        |                 |        |             | 39(35-43)       | 77                | 2600           |
| 10D470K  | 30                            | 38  | 10.8                   | 11             |                                  |        |                 |        |             | 47(42-52)       | 93                | 2100           |
| 10D560K  | 35                            | 45  | 12.9                   | 13             |                                  |        |                 |        |             | 56(50-62)       | 110               | 1800           |
| 10D680K  | 40                            | 56  | 15.4                   | 16             |                                  |        |                 |        |             | 68(61-75)       | 135               | 1500           |

| Part No. | Maximum Allowable Voltage<br>最大容許回路電壓 |     | Energy 能量 /耐量<br>10/1000 μ S |             | Withstanding Surge Current<br>最大峰值電流 8/20 μ S |        |                 |        | Rated POWER<br>最大額定功率 | Varistor Voltage<br>壓敏電壓 | Max Clamping Voltage<br>最大限制電壓 | Capacitance<br>電容量<br>(參考值) |
|----------|---------------------------------------|-----|------------------------------|-------------|-----------------------------------------------|--------|-----------------|--------|-----------------------|--------------------------|--------------------------------|-----------------------------|
| 產品型號     | ACrms                                 | DC  | Standard                     | High Energy | Standard (A)                                  |        | High Energy (A) |        | (W)                   | AT 1mA                   | AT 25A                         | 1KHz                        |
|          | (V)                                   | (V) | (J)                          | (J)         | 1 TIME                                        | 2 TIME | 1 TIME          | 2 TIME |                       | (V)                      | (V)                            | P <sup>F</sup>              |
| 10D820K  | 50                                    | 65  | 16.8                         | 17.0        | 2500                                          | 1250   | 3500            | 2500   | 0.4                   | 82(74-90)                | 135                            | 1200                        |
| 10D101K  | 60                                    | 85  | 18.2                         | 18.5        |                                               |        |                 |        |                       | 100(90-110)              | 165                            | 1000                        |
| 10D121K  | 75                                    | 100 | 21.0                         | 21.5        |                                               |        |                 |        |                       | 120(108-132)             | 200                            | 830                         |
| 10D151K  | 95                                    | 125 | 25.2                         | 26.0        |                                               |        |                 |        |                       | 150(135-165)             | 250                            | 670                         |
| 10D181K  | 115                                   | 150 | 30.8                         | 38.0        |                                               |        |                 |        |                       | 180(162-198)             | 300                            | 560                         |
| 10D201K  | 130                                   | 170 | 42.0                         | 42.5        |                                               |        |                 |        |                       | 200(185-225)             | 330                            | 500                         |
| 10D221K  | 140                                   | 180 | 46.2                         | 46.5        |                                               |        |                 |        |                       | 220(198-242)             | 360                            | 450                         |
| 10D241K  | 150                                   | 200 | 50.4                         | 51.0        |                                               |        |                 |        |                       | 240(216-264)             | 395                            | 420                         |
| 10D271K  | 175                                   | 225 | 57.4                         | 58.0        |                                               |        |                 |        |                       | 270(243-297)             | 455                            | 370                         |
| 10D301K  | 190                                   | 250 | 63.0                         | 63.5        |                                               |        |                 |        |                       | 300(270-330)             | 505                            | 330                         |
| 10D331K  | 210                                   | 275 | 68.6                         | 69.0        |                                               |        |                 |        |                       | 330(297-363)             | 550                            | 300                         |
| 10D361K  | 230                                   | 300 | 74.2                         | 75.0        |                                               |        |                 |        |                       | 360(324-396)             | 595                            | 280                         |
| 10D391K  | 250                                   | 320 | 81.2                         | 82.0        |                                               |        |                 |        |                       | 390(351-429)             | 650                            | 260                         |
| 10D431K  | 275                                   | 350 | 88.2                         | 89.0        |                                               |        |                 |        |                       | 430(387-473)             | 710                            | 230                         |
| 10D471K  | 300                                   | 385 | 96                           | 100         |                                               |        |                 |        |                       | 470(423-517)             | 775                            | 210                         |
| 10D511K  | 320                                   | 415 | 98                           | 102         |                                               |        |                 |        |                       | 510(459-561)             | 845                            | 200                         |
| 10D561K  | 350                                   | 460 | 100                          | 104         |                                               |        |                 |        |                       | 560(504-616)             | 920                            | 180                         |
| 10D621K  | 385                                   | 505 | 102                          | 106         |                                               |        |                 |        |                       | 620(558-682)             | 1025                           | 160                         |
| 10D681K  | 420                                   | 560 | 104                          | 108         |                                               |        |                 |        |                       | 680(612-748)             | 1120                           | 150                         |
| 10D751K  | 460                                   | 615 | 110                          | 118         |                                               |        |                 |        |                       | 750(675-825)             | 1240                           | 140                         |
| 10D781K  | 485                                   | 640 | 118                          | 120         |                                               |        |                 |        |                       | 780(702-858)             | 1290                           | 130                         |
| 10D821K  | 510                                   | 670 | 122                          | 125         |                                               |        |                 |        |                       | 820(738-902)             | 1355                           | 120                         |
| 10D911K  | 550                                   | 745 | 128                          | 134         |                                               |        |                 |        |                       | 910(819-1001)            | 1500                           | 110                         |
| 10D102K  | 625                                   | 825 | 131                          | 140         |                                               |        |                 |        |                       | 1000(900-1100)           | 1650                           | 100                         |
| 10D112K  | 680                                   | 895 | 133                          | 155         |                                               |        |                 |        |                       | 1100(990-1210)           | 1815                           | 90                          |





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## 14D Standard and High Energy Series

| Part No. | Maximum Allowable Voltage<br>最大容許回路電壓 |     | Energy<br>能量 /耐量<br>10/1000 μ S |             | Withstanding Surge Current<br>最大峰值電流 8/20 μ S |        |                 |        | Rated POWER<br>最大額定功率 | Varistor Voltage<br>壓敏電壓 | Max Clamping Voltage<br>最大限制電壓 | Capacitance<br>電容量<br>(參考值) |
|----------|---------------------------------------|-----|---------------------------------|-------------|-----------------------------------------------|--------|-----------------|--------|-----------------------|--------------------------|--------------------------------|-----------------------------|
| 產品型號     | ACrms                                 | DC  | Standard                        | High Energy | Standard (A)                                  |        | High Energy (A) |        | (W)                   | AT 1mA                   | AT 10A                         | 1KHz                        |
|          | (V)                                   | (V) | (J)                             | (J)         | 1 TIME                                        | 2 TIME | 1 TIME          | 2 TIME |                       | (V)                      | (V)                            | P <sup>F</sup>              |
| 14D180L  | 10                                    | 14  | 6.6                             | 7.0         | 1000                                          | 500    | 2000            | 1000   | 0.1                   | 18(15-21)                | 38                             | 11100                       |
| 14D220K  | 14                                    | 18  | 7.6                             | 8.0         |                                               |        |                 |        |                       | 22(20-24)                | 43                             | 9100                        |
| 14D270K  | 17                                    | 22  | 9.7                             | 10.0        |                                               |        |                 |        |                       | 27(24-30)                | 53                             | 7400                        |
| 14D330K  | 20                                    | 26  | 12.3                            | 12.5        |                                               |        |                 |        |                       | 33(30-36)                | 65                             | 6100                        |
| 14D390K  | 25                                    | 31  | 13.2                            | 13.0        |                                               |        |                 |        |                       | 39(35-43)                | 77                             | 5100                        |
| 14D470K  | 30                                    | 38  | 16.8                            | 17.0        |                                               |        |                 |        |                       | 47(42-52)                | 93                             | 4300                        |
| 14D560K  | 35                                    | 45  | 19.6                            | 20          |                                               |        |                 |        |                       | 56(50-62)                | 110                            | 3600                        |
| 14D680K  | 40                                    | 56  | 23.8                            | 24          |                                               |        |                 |        |                       | 68(61-75)                | 135                            | 2900                        |

| Part No. | Maximum Allowable Voltage<br>最大容許回路電壓 |      | Energy<br>能量 /耐量<br>10/1000 μ S |             | Withstanding Surge Current<br>最大峰值電流 8/20 μ S |        |                 |        | Rated POWER<br>最大額定<br>功率 | Varistor<br>Voltage<br>壓敏電壓 | Max Clamping<br>Voltage<br>最大限制電壓 | Capacitance<br>電容量<br>(參考值) |
|----------|---------------------------------------|------|---------------------------------|-------------|-----------------------------------------------|--------|-----------------|--------|---------------------------|-----------------------------|-----------------------------------|-----------------------------|
| 產品型號     | ACrms                                 | DC   | Standard                        | High Energy | Standard (A)                                  |        | High Energy (A) |        | (W)                       | AT 1mA                      | AT 50A                            | 1KHz                        |
|          | (V)                                   | (V)  | (J)                             | (J)         | 1 TIME                                        | 2 TIME | 1 TIME          | 2 TIME |                           | (V)                         | (V)                               | P <sup>F</sup>              |
|          | 14D820K                               | 50   | 65                              | 29.4        | 30.0                                          | 4500   | 2500            | 6000   |                           | 5000                        | 0.6                               | 82(74-90)                   |
| 14D101K  | 60                                    | 85   | 33.6                            | 35.0        | 100(90-110)                                   |        |                 |        | 165                       |                             |                                   | 2000                        |
| 14D121K  | 75                                    | 100  | 40.6                            | 42.0        | 120(108-132)                                  |        |                 |        | 200                       |                             |                                   | 1700                        |
| 14D151K  | 95                                    | 125  | 51.8                            | 53.0        | 150(135-165)                                  |        |                 |        | 250                       |                             |                                   | 1300                        |
| 14D181K  | 115                                   | 150  | 58.8                            | 74.0        | 180(162-198)                                  |        |                 |        | 300                       |                             |                                   | 1100                        |
| 14D201K  | 130                                   | 170  | 75.2                            | 78.6        | 200(185-225)                                  |        |                 |        | 330                       |                             |                                   | 1000                        |
| 14D221K  | 140                                   | 180  | 79.8                            | 80.5        | 220(198-242)                                  |        |                 |        | 360                       |                             |                                   | 900                         |
| 14D241K  | 150                                   | 200  | 82.6                            | 86.0        | 240(216-264)                                  |        |                 |        | 395                       |                             |                                   | 830                         |
| 14D271K  | 175                                   | 225  | 84.0                            | 94.0        | 270(243-297)                                  |        |                 |        | 455                       |                             |                                   | 740                         |
| 14D301K  | 190                                   | 250  | 103                             | 105         | 300(270-330)                                  |        |                 |        | 505                       |                             |                                   | 670                         |
| 14D331K  | 210                                   | 275  | 112                             | 115         | 330(297-363)                                  |        |                 |        | 550                       |                             |                                   | 610                         |
| 14D361K  | 230                                   | 300  | 123                             | 130         | 360(324-396)                                  |        |                 |        | 595                       |                             |                                   | 560                         |
| 14D391K  | 250                                   | 320  | 135                             | 140         | 390(351-429)                                  |        |                 |        | 650                       |                             |                                   | 510                         |
| 14D431K  | 275                                   | 350  | 145                             | 155         | 430(387-473)                                  |        |                 |        | 710                       |                             |                                   | 460                         |
| 14D471K  | 300                                   | 385  | 147                             | 175         | 470(423-517)                                  |        |                 |        | 775                       |                             |                                   | 430                         |
| 14D511K  | 320                                   | 415  | 148                             | 180         | 510(459-561)                                  |        |                 |        | 845                       |                             |                                   | 390                         |
| 14D561K  | 350                                   | 460  | 150                             | 186         | 560(504-616)                                  |        |                 |        | 920                       |                             |                                   | 360                         |
| 14D621K  | 385                                   | 505  | 155                             | 188         | 620(558-682)                                  |        |                 |        | 1025                      |                             |                                   | 320                         |
| 14D681K  | 420                                   | 560  | 160                             | 190         | 680(612-748)                                  |        |                 |        | 1120                      |                             |                                   | 290                         |
| 14D751K  | 460                                   | 615  | 180                             | 210         | 750(675-825)                                  |        |                 |        | 1240                      |                             |                                   | 270                         |
| 14D781K  | 485                                   | 640  | 190                             | 211         | 780(702-858)                                  |        |                 |        | 1290                      |                             |                                   | 260                         |
| 14D821K  | 510                                   | 670  | 203                             | 235         | 820(738-902)                                  |        |                 |        | 1355                      |                             |                                   | 230                         |
| 14D911K  | 550                                   | 745  | 208                             | 255         | 910(819-1001)                                 |        |                 |        | 1500                      |                             |                                   | 220                         |
| 14D102K  | 625                                   | 825  | 212                             | 280         | 1000(900-1100)                                |        |                 |        | 1650                      |                             |                                   | 200                         |
| 14D112K  | 680                                   | 895  | 217                             | 310         | 1100(990-1210)                                |        |                 |        | 1815                      |                             |                                   | 180                         |
| 14D152K  | 900                                   | 1200 | 266                             | 420         | 1500(1350-1650)                               |        |                 |        | 2475                      |                             |                                   | 130                         |
| 14D182K  | 1000                                  | 1465 | 336                             | 510         | 1800(1620-1980)                               |        |                 |        | 2970                      |                             |                                   | 110                         |



# KLS ELECTRONIC CO.,LTD.

壓敏電阻  
Varistor



| 20D Standard and High Energy Series |                                       |      |                              |             |                                               |        |                 |        |                       |                          |                                |                          |
|-------------------------------------|---------------------------------------|------|------------------------------|-------------|-----------------------------------------------|--------|-----------------|--------|-----------------------|--------------------------|--------------------------------|--------------------------|
| Part No.                            | Maximum Allowable Voltage<br>最大容許回路電壓 |      | Energy 能量 /耐量<br>10/1000 μ S |             | Withstanding Surge Current<br>最大峰值電流 8/20 μ S |        |                 |        | Rated POWER<br>最大額定功率 | Varistor Voltage<br>壓敏電壓 | Max Clamping Voltage<br>最大限制電壓 | Capacitance<br>電容量 (參考值) |
| 產品型號                                | ACrms                                 | DC   | Standard                     | High Energy | Standard (A)                                  |        | High Energy (A) |        | (W)                   | AT 1mA                   | AT 20A                         | 1KHz                     |
|                                     | (V)                                   | (V)  | (J)                          | (J)         | 1 TIME                                        | 2 TIME | 1 TIME          | 2 TIME |                       | (V)                      | (V)                            | P <sup>F</sup>           |
| 20D180L                             | 10                                    | 14   | 6.1                          | 13.0        | 2000                                          | 1000   | 3000            | 1000   | 0.2                   | 18(15-21)                | 38                             | 19000                    |
| 20D220K                             | 14                                    | 18   | 7.4                          | 16.0        |                                               |        |                 |        |                       | 22(20-24)                | 43                             | 15000                    |
| 20D270K                             | 17                                    | 22   | 9.1                          | 19.0        |                                               |        |                 |        |                       | 27(24-30)                | 53                             | 12000                    |
| 20D330K                             | 20                                    | 26   | 11.2                         | 24.0        |                                               |        |                 |        |                       | 33(30-36)                | 65                             | 10000                    |
| 20D390K                             | 25                                    | 31   | 13.2                         | 28.0        |                                               |        |                 |        |                       | 39(35-43)                | 77                             | 8500                     |
| 20D470K                             | 30                                    | 38   | 16.8                         | 34.0        |                                               |        |                 |        |                       | 47(42-52)                | 93                             | 7400                     |
| 20D560K                             | 35                                    | 45   | 19.6                         | 41.0        |                                               |        |                 |        |                       | 56(50-62)                | 110                            | 6500                     |
| 20D680K                             | 40                                    | 56   | 23.8                         | 49.0        |                                               |        |                 |        |                       | 68(61-75)                | 135                            | 5800                     |
| Part No.                            | Maximum Allowable Voltage<br>最大容許回路電壓 |      | Energy 能量 /耐量<br>10/1000 μ S |             | Withstanding Surge Current<br>最大峰值電流 8/20 μ S |        |                 |        | Rated POWER<br>最大額定功率 | Varistor Voltage<br>壓敏電壓 | Max Clamping Voltage<br>最大限制電壓 | Capacitance<br>電容量 (參考值) |
| 產品型號                                | ACrms                                 | DC   | Standard                     | High Energy | Standard (A)                                  |        | High Energy (A) |        | (W)                   | AT 1mA                   | AT 100A                        | 1KHz                     |
|                                     | (V)                                   | (V)  | (J)                          | (J)         | 1 TIME                                        | 2 TIME | 1 TIME          | 2 TIME |                       | (V)                      | (V)                            | P <sup>F</sup>           |
| 20D820K                             | 50                                    | 65   | 37.8                         | 56.0        | 6500                                          | 4000   | 10000           | 7000   | 1.0                   | 82(74-90)                | 135                            | 4900                     |
| 20D101K                             | 60                                    | 85   | 42.0                         | 70.0        |                                               |        |                 |        |                       | 100(90-110)              | 165                            | 4000                     |
| 20D121K                             | 75                                    | 100  | 56.0                         | 85.0        |                                               |        |                 |        |                       | 120(108-132)             | 200                            | 3300                     |
| 20D151K                             | 95                                    | 125  | 70.0                         | 106         |                                               |        |                 |        |                       | 150(135-165)             | 250                            | 2700                     |
| 20D181K                             | 115                                   | 150  | 84.0                         | 130         |                                               |        |                 |        |                       | 180(162-198)             | 300                            | 2200                     |
| 20D201K                             | 130                                   | 170  | 98.0                         | 140         |                                               |        |                 |        |                       | 200(185-225)             | 330                            | 2000                     |
| 20D221K                             | 140                                   | 180  | 105                          | 155         |                                               |        |                 |        |                       | 220(198-242)             | 360                            | 1800                     |
| 20D241K                             | 150                                   | 200  | 112                          | 168         |                                               |        |                 |        |                       | 240(216-264)             | 395                            | 1650                     |
| 20D271K                             | 175                                   | 225  | 126                          | 190         |                                               |        |                 |        |                       | 270(243-297)             | 455                            | 1500                     |
| 20D301K                             | 190                                   | 250  | 133                          | 210         |                                               |        |                 |        |                       | 300(270-330)             | 505                            | 1300                     |
| 20D331K                             | 210                                   | 275  | 140                          | 228         |                                               |        |                 |        |                       | 330(297-363)             | 550                            | 1200                     |
| 20D361K                             | 230                                   | 300  | 168                          | 255         |                                               |        |                 |        |                       | 360(324-396)             | 595                            | 1100                     |
| 20D391K                             | 250                                   | 320  | 182                          | 275         |                                               |        |                 |        |                       | 390(351-429)             | 650                            | 1000                     |
| 20D431K                             | 275                                   | 350  | 196                          | 305         |                                               |        |                 |        |                       | 430(387-473)             | 710                            | 930                      |
| 20D471K                             | 300                                   | 385  | 202                          | 350         |                                               |        |                 |        |                       | 470(423-517)             | 775                            | 850                      |
| 20D511K                             | 320                                   | 415  | 207                          | 360         |                                               |        |                 |        |                       | 510(459-561)             | 845                            | 780                      |
| 20D561K                             | 350                                   | 460  | 210                          | 366         |                                               |        |                 |        |                       | 560(504-616)             | 920                            | 715                      |
| 20D621K                             | 385                                   | 505  | 224                          | 372         |                                               |        |                 |        |                       | 620(558-682)             | 1025                           | 650                      |
| 20D681K                             | 420                                   | 560  | 224                          | 382         |                                               |        |                 |        |                       | 680(612-748)             | 1120                           | 600                      |
| 20D751K                             | 460                                   | 615  | 230                          | 410         |                                               |        |                 |        |                       | 750(675-825)             | 1240                           | 530                      |
| 20D781K                             | 485                                   | 640  | 240                          | 421         |                                               |        |                 |        |                       | 780(702-858)             | 1290                           | 510                      |
| 20D821K                             | 510                                   | 670  | 250                          | 460         |                                               |        |                 |        |                       | 820(738-902)             | 1355                           | 500                      |
| 20D911K                             | 550                                   | 745  | 260                          | 510         |                                               |        |                 |        |                       | 910(819-1001)            | 1500                           | 440                      |
| 20D102K                             | 625                                   | 825  | 270                          | 560         |                                               |        |                 |        |                       | 1000(900-1100)           | 1650                           | 400                      |
| 20D112K                             | 680                                   | 895  | 280                          | 620         |                                               |        |                 |        |                       | 1100(990-1210)           | 1815                           | 360                      |
| 20D152K                             | 900                                   | 1200 | 420                          | 780         |                                               |        |                 |        |                       | 1500(1350-1650)          | 2475                           | 260                      |
| 20D182K                             | 1000                                  | 1465 | 560                          | 860         |                                               |        |                 |        |                       | 1800(1620-1980)          | 2970                           | 220                      |



# KLS ELECTRONIC CO.,LTD.

壓敏電阻  
Varistor

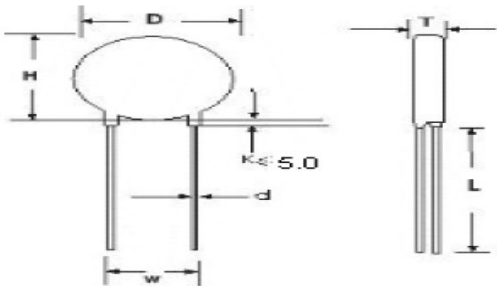


## I Series: Industrial High Energy MOV (Big Size)

工業級大尺寸突波吸收器

Diameter: 25 mm

| Part No.<br>產品型號 | Maximum Allowable Voltage<br>可容許之最大電壓 |           | Energy<br>能量<br>10/1000 μ S | Withstanding Surge Current<br>突波電流耐量<br>8/20 μ S |         | Rated Wattage<br>額定功率 | Varistor Voltage<br>壓敏電壓 | Maximum Clamping Voltage<br>最大抑制電壓 |
|------------------|---------------------------------------|-----------|-----------------------------|--------------------------------------------------|---------|-----------------------|--------------------------|------------------------------------|
|                  | ACrms<br>(V)                          | DC<br>(V) | (J)                         | 1 time                                           | 2 times | (W)                   | at 1mA<br>(V)            | at 150A<br>(V)                     |
|                  |                                       |           |                             | (A)                                              |         |                       |                          |                                    |
| 25D182K          | 1000                                  | 1465      | 1100                        | 10000                                            | 5000    | 1.0                   | 1800(1620-1980)          | 2970                               |
| 25D152K          | 900                                   | 1200      | 950                         |                                                  |         |                       | 1500(1350-1650)          | 2475                               |
| 25D122K          | 750                                   | 980       | 785                         |                                                  |         |                       | 1200(1080~1320)          | 1925                               |
| 25D112K          | 680                                   | 890       | 685                         |                                                  |         |                       | 1100(990-1210)           | 1815                               |
| 25D102K          | 625                                   | 825       | 620                         |                                                  |         |                       | 1000(900-1100)           | 1650                               |
| 25D911K          | 550                                   | 745       | 560                         |                                                  |         |                       | 910(819-1001)            | 1500                               |
| 25D821K          | 510                                   | 670       | 505                         |                                                  |         |                       | 820(738-902)             | 1355                               |
| 25D781K          | 485                                   | 640       | 485                         |                                                  |         |                       | 780(702-858)             | 1290                               |
| 25D751K          | 460                                   | 615       | 460                         |                                                  |         |                       | 750(675-825)             | 1240                               |
| 25D681K          | 420                                   | 560       | 430                         |                                                  |         |                       | 680(612-748)             | 1120                               |
| 25D621K          | 385                                   | 505       | 425                         |                                                  |         |                       | 620(558-682)             | 1025                               |
| 25D561K          | 350                                   | 460       | 420                         |                                                  |         |                       | 560(504-616)             | 920                                |
| 25D511K          | 320                                   | 415       | 420                         |                                                  |         |                       | 510(459-561)             | 845                                |
| 25D471K          | 300                                   | 385       | 385                         |                                                  |         |                       | 470(423-517)             | 775                                |
| 25D431K          | 275                                   | 350       | 335                         |                                                  |         |                       | 430(387-473)             | 710                                |
| 25D391K          | 250                                   | 320       | 300                         |                                                  |         |                       | 390(351-429)             | 650                                |
| 25D361K          | 230                                   | 300       | 245                         |                                                  |         |                       | 360(324-396)             | 595                                |
| 25D331K          | 210                                   | 275       | 230                         |                                                  |         |                       | 330(297-363)             | 550                                |
| 25D301K          | 190                                   | 250       | 220                         |                                                  |         |                       | 300(270-330)             | 505                                |
| 25D271K          | 175                                   | 225       | 210                         |                                                  |         |                       | 270(243-297)             | 455                                |
| 25D241K          | 150                                   | 200       | 190                         |                                                  |         |                       | 240(216-264)             | 395                                |
| 25D221K          | 140                                   | 180       | 170                         |                                                  |         |                       | 220(198-242)             | 360                                |
| 25D201K          | 130                                   | 170       | 155                         |                                                  |         |                       | 200(185-225)             | 330                                |





# KLS ELECTRONIC CO.,LTD.

壓敏電阻  
Varistor



## I Series: Industrial High Energy MOV (Big Size)

工業級大尺寸突波吸收器

Diameter: 32 mm



| Part No.<br>產品型號 | Maximum Allowable Voltage<br>可容許之最大電壓 |           | Energy<br>能量<br>10/1000 $\mu$ S | Withstanding Surge Current<br>突波電流耐量<br>8/20 $\mu$ S | Rated Wattage<br>額定功率 | Varistor Voltage<br>壓敏電壓 | Maximum Clamping Voltage<br>最大抑制電壓 |
|------------------|---------------------------------------|-----------|---------------------------------|------------------------------------------------------|-----------------------|--------------------------|------------------------------------|
|                  | ACrms<br>(V)                          | DC<br>(V) | (J)                             | (A)                                                  | (W)                   | at 1mA<br>(V)            | at 150A<br>(V)                     |
| 32D182K          | 1000                                  | 1465      | 1300                            | 15000                                                | 1.2                   | 1800(1620-1980)          | 2970                               |
| 32D152K          | 900                                   | 1200      | 1000                            |                                                      |                       | 1500(1350-1650)          | 2475                               |
| 32D122K          | 750                                   | 980       | 960                             |                                                      |                       | 1200(1080~1320)          | 1925                               |
| 32D112K          | 680                                   | 890       | 875                             |                                                      |                       | 1100(990-1210)           | 1815                               |
| 32D102K          | 625                                   | 825       | 795                             |                                                      |                       | 1000(900-1100)           | 1650                               |
| 32D911K          | 550                                   | 745       | 726                             |                                                      |                       | 910(819-1001)            | 1500                               |
| 32D821K          | 510                                   | 670       | 655                             |                                                      |                       | 820(738-902)             | 1355                               |
| 32D781K          | 485                                   | 640       | 620                             |                                                      |                       | 780(702-858)             | 1290                               |
| 32D751K          | 460                                   | 615       | 590                             |                                                      |                       | 750(675-825)             | 1240                               |
| 32D681K          | 420                                   | 560       | 540                             |                                                      |                       | 680(612-748)             | 1120                               |
| 32D621K          | 385                                   | 505       | 540                             |                                                      |                       | 620(558-682)             | 1025                               |
| 32D561K          | 350                                   | 460       | 490                             |                                                      |                       | 560(504-616)             | 920                                |
| 32D511K          | 320                                   | 415       | 440                             |                                                      |                       | 510(459-561)             | 845                                |
| 32D471K          | 300                                   | 385       | 390                             |                                                      |                       | 470(423-517)             | 775                                |
| 32D431K          | 275                                   | 350       | 365                             |                                                      |                       | 430(387-473)             | 710                                |
| 32D391K          | 250                                   | 320       | 335                             |                                                      |                       | 390(351-429)             | 650                                |
| 32D361K          | 230                                   | 300       | 305                             |                                                      |                       | 360(324-396)             | 595                                |
| 32D331K          | 210                                   | 275       | 295                             |                                                      |                       | 330(297-363)             | 550                                |
| 32D301K          | 190                                   | 250       | 275                             |                                                      |                       | 300(270-330)             | 505                                |
| 32D271K          | 175                                   | 225       | 260                             |                                                      |                       | 270(243-297)             | 455                                |
| 32D241K          | 150                                   | 200       | 245                             |                                                      |                       | 240(216-264)             | 395                                |
| 32D221K          | 140                                   | 180       | 235                             |                                                      |                       | 220(198-242)             | 360                                |
| 32D201K          | 130                                   | 170       | 215                             |                                                      |                       | 200(185-225)             | 330                                |



# KLS ELECTRONIC CO.,LTD.

壓敏電阻  
Varistor



## I Series: Industrial High Energy MOV (Big Size)

工業級大尺寸突波吸收器

Diameter: 34x34 mm

| Part No.<br>產品型號 | Maximum Allowable Voltage<br>可容許之最大電壓 |           | Energy<br>能量<br>10/1000 $\mu$ S | Withstanding Surge Current<br>突波電流耐量<br>8/20 $\mu$ S | Rated Wattage<br>額定功率 | Varistor Voltage<br>壓敏電壓 | Maximum Clamping Voltage<br>最大抑制電壓 |
|------------------|---------------------------------------|-----------|---------------------------------|------------------------------------------------------|-----------------------|--------------------------|------------------------------------|
|                  | ACrms<br>(V)                          | DC<br>(V) | (J)                             | (A)                                                  | (W)                   | at 1mA<br>(V)            | at 150A<br>(V)                     |
| 34S182K          | 1000                                  | 1465      | 1500                            | 25000                                                | 1.4                   | 1800(1620-1980)          | 2970                               |
| 34S152K          | 900                                   | 1200      | 1200                            |                                                      |                       | 1500(1350-1650)          | 2475                               |
| 34S122K          | 750                                   | 980       | 1150                            |                                                      |                       | 1200(1080~1320)          | 1925                               |
| 34S112K          | 680                                   | 890       | 1100                            |                                                      |                       | 1100(990-1210)           | 1815                               |
| 34S102K          | 625                                   | 825       | 1040                            |                                                      |                       | 1000(900-1100)           | 1650                               |
| 34S911K          | 550                                   | 745       | 960                             |                                                      |                       | 910(819-1001)            | 1500                               |
| 34S821K          | 510                                   | 670       | 900                             |                                                      |                       | 820(738-902)             | 1355                               |
| 34S781K          | 485                                   | 640       | 820                             |                                                      |                       | 780(702-858)             | 1290                               |
| 34S751K          | 460                                   | 615       | 780                             |                                                      |                       | 750(675-825)             | 1240                               |
| 34S681K          | 420                                   | 560       | 740                             |                                                      |                       | 680(612-748)             | 1120                               |
| 34S621K          | 385                                   | 505       | 700                             |                                                      |                       | 620(558-682)             | 1025                               |
| 34S561K          | 350                                   | 460       | 660                             |                                                      |                       | 560(504-616)             | 920                                |
| 34S511K          | 320                                   | 415       | 640                             |                                                      |                       | 510(459-561)             | 845                                |
| 34S471K          | 300                                   | 385       | 600                             |                                                      |                       | 470(423-517)             | 775                                |
| 34S431K          | 275                                   | 350       | 550                             |                                                      |                       | 430(387-473)             | 710                                |
| 34S391K          | 250                                   | 320       | 490                             |                                                      |                       | 390(351-429)             | 650                                |
| 34S361K          | 230                                   | 300       | 460                             |                                                      |                       | 360(324-396)             | 595                                |
| 34S331K          | 210                                   | 275       | 430                             |                                                      |                       | 330(297-363)             | 550                                |
| 34S301K          | 190                                   | 250       | 410                             |                                                      |                       | 300(270-330)             | 505                                |
| 34S271K          | 175                                   | 225       | 390                             |                                                      |                       | 270(243-297)             | 455                                |
| 34S241K          | 150                                   | 200       | 360                             |                                                      |                       | 240(216-264)             | 395                                |
| 34S221K          | 140                                   | 180       | 330                             |                                                      |                       | 220(198-242)             | 360                                |
| 34S201K          | 130                                   | 170       | 310                             |                                                      |                       | 200(185-225)             | 330                                |