

| Rated voltage             | Cap<br>μF | Case<br>Size | ESR mΩ at 20°C<br>100Hz | Impedance mΩ<br>at 20°C, 10 KHz | Ripple current A at 105°C |        | Type number    |
|---------------------------|-----------|--------------|-------------------------|---------------------------------|---------------------------|--------|----------------|
|                           |           |              |                         |                                 | 100 Hz                    | 10 KHz |                |
| 10V d.c.<br>(11.5V surge) | 12000     | 22x30        | 233                     | 201                             | 1.95                      | 2.05   | ALC40A123AB010 |
|                           | 15000     | 22x40        | 181                     | 155                             | 2.60                      | 2.74   | ALC40A153AD010 |
|                           | 18000     | 22x40        | 154                     | 133                             | 2.70                      | 2.84   | ALC40A183AD010 |
|                           | 18000     | 25x30        | 172                     | 150                             | 2.19                      | 2.29   | ALC40A183BB010 |
|                           | 22000     | 25x35        | 139                     | 121                             | 2.59                      | 2.71   | ALC40A223BC010 |
|                           | 27000     | 25x40        | 114                     | 99                              | 3.04                      | 3.18   | ALC40A273BD010 |
|                           | 27000     | 30x30        | 138                     | 123                             | 2.45                      | 2.55   | ALC40A273CB010 |
|                           | 33000     | 30x35        | 111                     | 98                              | 2.97                      | 3.09   | ALC40A333CC010 |
|                           | 39000     | 30x40        | 92                      | 82                              | 3.40                      | 3.54   | ALC40A393CD010 |
|                           | 47000     | 35x35        | 98                      | 89                              | 3.26                      | 3.39   | ALC40A473DC010 |
|                           | 56000     | 30x50        | 66                      | 58                              | 4.41                      | 4.59   | ALC40A563CF010 |
|                           | 56000     | 35x40        | 81                      | 74                              | 3.74                      | 3.90   | ALC40A563DD010 |
|                           | 56000     | 40x30        | 65                      | 59                              | 4.91                      | 5.00   | ALC40A563EB010 |
|                           | 68000     | 35x50        | 61                      | 55                              | 4.85                      | 5.03   | ALC40A683DF010 |
|                           | 68000     | 40x40        | 52                      | 47                              | 6.78                      | 6.91   | ALC40A683ED010 |
|                           | 82000     | 35x50        | 58                      | 53                              | 4.85                      | 5.05   | ALC40A823DF010 |
|                           | 82000     | 40x45        | 43                      | 39                              | 7.72                      | 7.87   | ALC40A823EE010 |
|                           | 100000    | 40x50        | 36                      | 32                              | 8.79                      | 8.95   | ALC40A104EF010 |
|                           | 120000    | 40x55        | 32                      | 29                              | 9.11                      | 9.25   | ALC40A124EG010 |
|                           | 150000    | 40x60        | 27                      | 24                              | 10.04                     | 10.19  | ALC40A154EH010 |
|                           | 180000    | 40x80        | 19                      | 18                              | 13.18                     | 13.48  | ALC40A184EL010 |
|                           | 220000    | 40x105       | 17                      | 16                              | 14.15                     | 14.61  | ALC40A224EP010 |
| 16V d.c.<br>(18.5V surge) | 8200      | 22x30        | 228                     | 195                             | 1.83                      | 1.94   | ALC40A822AB016 |
|                           | 10000     | 22x40        | 177                     | 151                             | 2.47                      | 2.63   | ALC40A103AD016 |
|                           | 12000     | 22x40        | 154                     | 131                             | 2.53                      | 2.69   | ALC40A123AD016 |
|                           | 12000     | 25x30        | 179                     | 156                             | 2.01                      | 2.12   | ALC40A123BB016 |
|                           | 15000     | 25x35        | 142                     | 124                             | 2.39                      | 2.51   | ALC40A153BC016 |
|                           | 18000     | 25x40        | 118                     | 103                             | 2.80                      | 2.95   | ALC40A183BD016 |
|                           | 18000     | 30x30        | 153                     | 136                             | 2.23                      | 2.34   | ALC40A183CB016 |
|                           | 22000     | 30x35        | 122                     | 108                             | 2.70                      | 2.84   | ALC40A223CC016 |
|                           | 27000     | 30x40        | 100                     | 89                              | 3.10                      | 3.26   | ALC40A273CD016 |
|                           | 33000     | 30x50        | 75                      | 67                              | 4.02                      | 4.22   | ALC40A333CF016 |
|                           | 33000     | 35x35        | 113                     | 102                             | 2.97                      | 3.12   | ALC40A333DC016 |
|                           | 33000     | 40x30        | 76                      | 68                              | 5.06                      | 5.17   | ALC40A333EB016 |
|                           | 39000     | 35x40        | 94                      | 85                              | 3.41                      | 3.58   | ALC40A393DD016 |
|                           | 39000     | 40x35        | 66                      | 60                              | 5.63                      | 5.74   | ALC40A393EC016 |
|                           | 47000     | 35x50        | 69                      | 62                              | 4.41                      | 4.63   | ALC40A473DF016 |
|                           | 47000     | 40x40        | 53                      | 48                              | 6.68                      | 6.83   | ALC40A473ED016 |
|                           | 56000     | 35x50        | 68                      | 61                              | 4.41                      | 4.63   | ALC40A563DF016 |
|                           | 56000     | 40x45        | 44                      | 40                              | 7.67                      | 7.84   | ALC40A563EE016 |
|                           | 68000     | 40x50        | 37                      | 33                              | 8.74                      | 8.93   | ALC40A683EF016 |
|                           | 82000     | 40x55        | 33                      | 29                              | 9.05                      | 9.22   | ALC40A823EG016 |
|                           | 100000    | 40x60        | 27                      | 25                              | 10.05                     | 10.23  | ALC40A104EH016 |
|                           | 120000    | 40x80        | 20                      | 18                              | 13.13                     | 13.43  | ALC40A124EL016 |
|                           | 220000    | 40x105       | 17                      | 16                              | 14.15                     | 14.61  | ALC40A224EP016 |

Note: Values of E.S.R. and Impedance quoted above are maximum

| Rated voltage             | Cap<br>μF | Case<br>Size | ESR mΩ at 20°C<br>100Hz | Impedance mΩ<br>at 20°C,10 KHz | Ripple current A at 105°C<br>100 Hz | 10 KHz | Type number    |
|---------------------------|-----------|--------------|-------------------------|--------------------------------|-------------------------------------|--------|----------------|
| 25V d.c.<br>(28.5V surge) | 5600      | 22x30        | 233                     | 196                            | 1.80                                | 1.94   | ALC40A562AB025 |
|                           | 6800      | 22x40        | 182                     | 151                            | 2.42                                | 2.63   | ALC40A682AD025 |
|                           | 8200      | 22x40        | 157                     | 132                            | 2.48                                | 2.68   | ALC40A822AD025 |
|                           | 8200      | 25x30        | 183                     | 157                            | 1.97                                | 2.11   | ALC40A822BB025 |
|                           | 10000     | 25x35        | 148                     | 126                            | 2.33                                | 2.50   | ALC40A103BC025 |
|                           | 12000     | 25x40        | 123                     | 105                            | 2.74                                | 2.93   | ALC40A123BD025 |
|                           | 12000     | 30x30        | 157                     | 138                            | 2.18                                | 2.33   | ALC40A123CB025 |
|                           | 15000     | 30x35        | 125                     | 109                            | 2.65                                | 2.83   | ALC40A153CC025 |
|                           | 18000     | 30x40        | 103                     | 91                             | 3.04                                | 3.24   | ALC40A183CD025 |
|                           | 22000     | 35x35        | 116                     | 104                            | 2.91                                | 3.10   | ALC40A223DC025 |
|                           | 27000     | 30x50        | 73                      | 64                             | 3.94                                | 4.21   | ALC40A273CF025 |
|                           | 27000     | 35x40        | 96                      | 86                             | 3.34                                | 3.56   | ALC40A273DD025 |
|                           | 27000     | 40x30        | 75                      | 69                             | 4.03                                | 4.09   | ALC40A273EB025 |
|                           | 33000     | 35x50        | 70                      | 63                             | 4.32                                | 4.61   | ALC40A333DF025 |
|                           | 33000     | 40x35        | 66                      | 62                             | 4.83                                | 4.90   | ALC40A333EC025 |
|                           | 39000     | 35x50        | 69                      | 62                             | 4.32                                | 4.61   | ALC40A393DF025 |
|                           | 39000     | 40x40        | 53                      | 49                             | 5.57                                | 5.65   | ALC40A393ED025 |
|                           | 47000     | 40x50        | 41                      | 37                             | 7.30                                | 7.40   | ALC40A473EF025 |
|                           | 56000     | 40x55        | 38                      | 35                             | 7.51                                | 7.61   | ALC40A563EG025 |
|                           | 82000     | 40x80        | 22                      | 20                             | 11.06                               | 11.24  | ALC40A823EL025 |
|                           | 120000    | 40x105       | 18                      | 17                             | 13.41                               | 14.05  | ALC40A124EP025 |
| 35V d.c.<br>(40V surge)   | 3900      | 22x30        | 239                     | 196                            | 1.75                                | 1.93   | ALC40A392AB035 |
|                           | 4700      | 22x40        | 187                     | 152                            | 2.35                                | 2.63   | ALC40A472AD035 |
|                           | 5600      | 22x40        | 163                     | 133                            | 2.41                                | 2.67   | ALC40A562AD035 |
|                           | 5600      | 25x30        | 190                     | 159                            | 1.93                                | 2.10   | ALC40A562BB035 |
|                           | 6800      | 25x35        | 153                     | 128                            | 2.27                                | 2.49   | ALC40A682BC035 |
|                           | 8200      | 25x40        | 127                     | 106                            | 2.67                                | 2.92   | ALC40A822BD035 |
|                           | 8200      | 30x30        | 162                     | 140                            | 2.13                                | 2.32   | ALC40A822CB035 |
|                           | 10000     | 30x35        | 130                     | 112                            | 2.59                                | 2.82   | ALC40A103CC035 |
|                           | 12000     | 30x40        | 107                     | 92                             | 2.96                                | 3.23   | ALC40A123CD035 |
|                           | 15000     | 35x35        | 120                     | 105                            | 2.84                                | 3.09   | ALC40A153DC035 |
|                           | 15000     | 40x30        | 87                      | 78                             | 4.24                                | 4.31   | ALC40A153EB035 |
|                           | 18000     | 30x50        | 76                      | 66                             | 3.85                                | 4.19   | ALC40A183CF035 |
|                           | 18000     | 35x40        | 99                      | 87                             | 3.25                                | 3.55   | ALC40A183DD035 |
|                           | 18000     | 40x35        | 77                      | 70                             | 4.66                                | 4.73   | ALC40A183EC035 |
|                           | 22000     | 35x50        | 73                      | 64                             | 4.22                                | 4.59   | ALC40A223DF035 |
|                           | 22000     | 40x40        | 61                      | 55                             | 5.49                                | 5.58   | ALC40A223ED035 |
|                           | 27000     | 35x50        | 71                      | 63                             | 4.22                                | 4.59   | ALC40A273DF035 |
|                           | 27000     | 40x45        | 51                      | 46                             | 6.30                                | 6.40   | ALC40A273EE035 |
|                           | 33000     | 40x50        | 42                      | 38                             | 7.16                                | 7.27   | ALC40A333EF035 |
|                           | 39000     | 40x60        | 33                      | 30                             | 8.75                                | 8.91   | ALC40A393EH035 |
|                           | 56000     | 40x80        | 23                      | 21                             | 10.94                               | 11.14  | ALC40A563EL035 |
|                           | 100000    | 40x105       | 17                      | 16                             | 13.04                               | 13.77  | ALC40A104EP035 |

Note: Values of E.S.R. and Impedance quoted above are maximum

| Rated voltage             | Cap $\mu$ F | Case Size | ESR m $\Omega$ at 20°C<br>100Hz | Impedance m $\Omega$<br>at 20°C, 10 KHz | Ripple current A at 105°C<br>100 Hz | Ripple current A at 105°C<br>10 KHz | Type number    |
|---------------------------|-------------|-----------|---------------------------------|-----------------------------------------|-------------------------------------|-------------------------------------|----------------|
| 40V d.c.<br>(46V surge)   | 2700        | 22x30     | 259                             | 207                                     | 1.69                                | 1.92                                | ALC40A272AB040 |
|                           | 3300        | 22x40     | 202                             | 160                                     | 2.26                                | 2.60                                | ALC40A332AD040 |
|                           | 3900        | 25x30     | 202                             | 166                                     | 1.87                                | 2.09                                | ALC40A392BB040 |
|                           | 4700        | 22x40     | 154                             | 124                                     | 2.38                                | 2.69                                | ALC40A472AD040 |
|                           | 5600        | 25x35     | 149                             | 124                                     | 2.23                                | 2.49                                | ALC40A562BC040 |
|                           | 5600        | 30x30     | 171                             | 144                                     | 2.08                                | 2.31                                | ALC40A562CB040 |
|                           | 6800        | 25x40     | 123                             | 102                                     | 2.61                                | 2.92                                | ALC40A682BD040 |
|                           | 6800        | 30x35     | 145                             | 120                                     | 2.55                                | 2.84                                | ALC40A682CC040 |
|                           | 8200        | 30x35     | 129                             | 110                                     | 2.53                                | 2.81                                | ALC40A822CC040 |
|                           | 10000       | 30x40     | 107                             | 91                                      | 2.90                                | 3.22                                | ALC40A103CD040 |
|                           | 12000       | 30x50     | 80                              | 68                                      | 3.75                                | 4.18                                | ALC40A123CF040 |
|                           | 12000       | 35x35     | 121                             | 106                                     | 2.77                                | 3.08                                | ALC40A123DC040 |
|                           | 12000       | 40x30     | 88                              | 79                                      | 4.13                                | 4.22                                | ALC40A123EB040 |
|                           | 15000       | 35x40     | 100                             | 87                                      | 3.18                                | 3.53                                | ALC40A153DD040 |
|                           | 15000       | 40x40     | 63                              | 56                                      | 5.66                                | 5.78                                | ALC40A153ED040 |
|                           | 18000       | 35x50     | 73                              | 64                                      | 4.12                                | 4.58                                | ALC40A183DF040 |
|                           | 18000       | 40x45     | 53                              | 47                                      | 6.46                                | 6.60                                | ALC40A183EE040 |
|                           | 22000       | 40x50     | 43                              | 39                                      | 7.34                                | 7.50                                | ALC40A223EF040 |
|                           | 27000       | 40x55     | 39                              | 35                                      | 7.50                                | 7.63                                | ALC40A273EG040 |
|                           | 47000       | 40x80     | 23                              | 21                                      | 10.42                               | 10.59                               | ALC40A473EL040 |
|                           | 68000       | 40x105    | 17                              | 16                                      | 12.71                               | 13.47                               | ALC40A683EP040 |
| 50V d.c.<br>(57.5V surge) | 1800        | 22x30     | 282                             | 218                                     | 1.60                                | 1.90                                | ALC40A182AB050 |
|                           | 2200        | 22x40     | 222                             | 170                                     | 2.13                                | 2.57                                | ALC40A222AD050 |
|                           | 2700        | 22x40     | 187                             | 145                                     | 2.22                                | 2.64                                | ALC40A272AD050 |
|                           | 2700        | 25x30     | 213                             | 169                                     | 1.80                                | 2.09                                | ALC40A272BB050 |
|                           | 3300        | 25x35     | 172                             | 136                                     | 2.13                                | 2.47                                | ALC40A332BC050 |
|                           | 3900        | 25x35     | 156                             | 126                                     | 2.15                                | 2.48                                | ALC40A392BC050 |
|                           | 3900        | 30x30     | 178                             | 147                                     | 2.01                                | 2.31                                | ALC40A392CB050 |
|                           | 4700        | 25x40     | 129                             | 104                                     | 2.52                                | 2.90                                | ALC40A472BD050 |
|                           | 5600        | 30x35     | 135                             | 112                                     | 2.44                                | 2.80                                | ALC40A562CC050 |
|                           | 6800        | 30x40     | 112                             | 93                                      | 2.80                                | 3.21                                | ALC40A682CD050 |
|                           | 8200        | 30x50     | 84                              | 69                                      | 3.63                                | 4.16                                | ALC40A822CF050 |
|                           | 8200        | 35x35     | 126                             | 107                                     | 2.68                                | 3.07                                | ALC40A822DC050 |
|                           | 8200        | 40x30     | 91                              | 80                                      | 4.15                                | 4.26                                | ALC40A822EB050 |
|                           | 10000       | 30x50     | 104                             | 88                                      | 3.40                                | 4.04                                | ALC40A103CF050 |
|                           | 10000       | 35x40     | 104                             | 88                                      | 3.08                                | 3.52                                | ALC40A103DD050 |
|                           | 12000       | 35x50     | 77                              | 65                                      | 3.98                                | 4.56                                | ALC40A123DF050 |
|                           | 12000       | 40x40     | 64                              | 57                                      | 5.42                                | 5.53                                | ALC40A123ED050 |
|                           | 15000       | 35x50     | 57                              | 44                                      | 4.73                                | 5.42                                | ALC40A153DF050 |
|                           | 15000       | 40x45     | 53                              | 47                                      | 6.11                                | 6.23                                | ALC40A153EE050 |
|                           | 18000       | 40x50     | 44                              | 39                                      | 6.98                                | 7.12                                | ALC40A183EF050 |
|                           | 22000       | 40x60     | 34                              | 30                                      | 8.45                                | 8.63                                | ALC40A223EH050 |
|                           | 33000       | 40x80     | 24                              | 21                                      | 10.41                               | 10.62                               | ALC40A333EL050 |
|                           | 56000       | 40x105    | 18                              | 16                                      | 12.64                               | 13.72                               | ALC40A563EP050 |

Note: Values of E.S.R. and Impedance quoted above are maximum

| Rated voltage             | Cap<br>µF | Case<br>Size | ESR mΩ at 20°C<br>100Hz | Impedance mΩ<br>at 20°C, 10 KHz | Ripple current A at 105°C<br>100 Hz | Ripple current A at 105°C<br>10 KHz | Type number    |
|---------------------------|-----------|--------------|-------------------------|---------------------------------|-------------------------------------|-------------------------------------|----------------|
| 63V d.c.<br>(72V surge)   | 1800      | 22x30        | 256                     | 200                             | 1.55                                | 1.83                                | ALC40A182AB063 |
|                           | 2200      | 25x30        | 227                     | 180                             | 1.69                                | 1.98                                | ALC40A222BB063 |
|                           | 2700      | 22x40        | 170                     | 132                             | 2.15                                | 2.55                                | ALC40A272AD063 |
|                           | 3300      | 25x35        | 165                     | 133                             | 2.01                                | 2.35                                | ALC40A332BC063 |
|                           | 3900      | 25x40        | 138                     | 111                             | 2.36                                | 2.75                                | ALC40A392BD063 |
|                           | 3900      | 30x30        | 185                     | 154                             | 1.88                                | 2.18                                | ALC40A392CB063 |
|                           | 4700      | 30x35        | 148                     | 123                             | 2.28                                | 2.65                                | ALC40A472CC063 |
|                           | 5600      | 30x40        | 122                     | 102                             | 2.61                                | 3.03                                | ALC40A562CD063 |
|                           | 5600      | 40x30        | 102                     | 90                              | 3.82                                | 3.91                                | ALC40A562EB063 |
|                           | 6800      | 30x50        | 92                      | 75                              | 3.39                                | 3.93                                | ALC40A682CF063 |
|                           | 6800      | 35x35        | 141                     | 119                             | 2.50                                | 2.90                                | ALC40A682DC063 |
|                           | 6800      | 40x35        | 91                      | 81                              | 4.18                                | 4.26                                | ALC40A682EC063 |
|                           | 8200      | 30x50        | 48                      | 35                              | 3.33                                | 3.98                                | ALC40A822CF063 |
|                           | 8200      | 35x40        | 116                     | 99                              | 2.87                                | 3.33                                | ALC40A822DD063 |
|                           | 8200      | 40x40        | 72                      | 64                              | 5.01                                | 5.12                                | ALC40A822ED063 |
|                           | 10000     | 35x50        | 85                      | 72                              | 3.71                                | 4.31                                | ALC40A103DF063 |
|                           | 10000     | 40x45        | 60                      | 53                              | 5.69                                | 5.81                                | ALC40A103EE063 |
|                           | 12000     | 40x50        | 50                      | 44                              | 6.50                                | 6.64                                | ALC40A123EF063 |
|                           | 15000     | 40x60        | 39                      | 34                              | 7.81                                | 7.99                                | ALC40A153EH063 |
|                           | 22000     | 40x80        | 27                      | 24                              | 9.70                                | 9.92                                | ALC40A223EL063 |
|                           | 33000     | 40x105       | 18                      | 17                              | 12.01                               | 13.01                               | ALC40A333EP063 |
| 100V d.c.<br>(115V surge) | 560       | 22x30        | 383                     | 276                             | 1.22                                | 1.67                                | ALC40A561AB100 |
|                           | 680       | 22x40        | 302                     | 214                             | 1.60                                | 2.26                                | ALC40A681AD100 |
|                           | 820       | 22x40        | 259                     | 186                             | 1.68                                | 2.31                                | ALC40A821AD100 |
|                           | 820       | 25x30        | 294                     | 220                             | 1.39                                | 1.82                                | ALC40A821BB100 |
|                           | 1000      | 25x35        | 238                     | 177                             | 1.65                                | 2.16                                | ALC40A102BC100 |
|                           | 1200      | 25x40        | 198                     | 147                             | 1.93                                | 2.53                                | ALC40A122BD100 |
|                           | 1200      | 30x30        | 245                     | 191                             | 1.57                                | 2.01                                | ALC40A122CB100 |
|                           | 1500      | 30x35        | 195                     | 151                             | 1.90                                | 2.44                                | ALC40A152CC100 |
|                           | 1800      | 30x40        | 162                     | 125                             | 2.18                                | 2.80                                | ALC40A182CD100 |
|                           | 2200      | 30x50        | 123                     | 94                              | 2.82                                | 3.63                                | ALC40A222CF100 |
|                           | 2200      | 35x35        | 177                     | 142                             | 2.10                                | 2.67                                | ALC40A222DC100 |
|                           | 2200      | 40x30        | 128                     | 110                             | 3.58                                | 3.80                                | ALC40A222EB100 |
|                           | 2700      | 35x40        | 146                     | 118                             | 2.41                                | 3.07                                | ALC40A272DD100 |
|                           | 2700      | 40x40        | 95                      | 80                              | 4.92                                | 5.24                                | ALC40A272ED100 |
|                           | 3300      | 35x50        | 108                     | 86                              | 3.12                                | 3.97                                | ALC40A332DF100 |
|                           | 3300      | 40x45        | 78                      | 66                              | 5.59                                | 5.95                                | ALC40A332EE100 |
|                           | 3900      | 40x50        | 65                      | 55                              | 6.41                                | 6.83                                | ALC40A392EF100 |
|                           | 4700      | 40x55        | 58                      | 50                              | 6.67                                | 7.04                                | ALC40A472EG100 |
|                           | 5600      | 40x60        | 49                      | 42                              | 7.46                                | 7.87                                | ALC40A562EH100 |
|                           | 8200      | 40x80        | 34                      | 29                              | 9.28                                | 9.78                                | ALC40A822EL100 |
|                           | 10000     | 40x105       | 24                      | 21                              | 11.33                               | 13.12                               | ALC40A103EP100 |

Note: Values of E.S.R. and Impedance quoted above are maximum

| Rated voltage             | Cap $\mu$ F | Case Size | ESR m $\Omega$ at 20°C<br>100Hz | Impedance m $\Omega$<br>at 20°C, 10 KHz | Ripple current A at 105°C<br>100 Hz | Ripple current A at 105°C<br>10 KHz | Type number    |
|---------------------------|-------------|-----------|---------------------------------|-----------------------------------------|-------------------------------------|-------------------------------------|----------------|
| 200V d.c.<br>(230V surge) | 220         | 22x30     | 644                             | 442                                     | 0.88                                | 1.41                                | ALC40A221AB200 |
|                           | 270         | 25x30     | 542                             | 377                                     | 1.01                                | 1.56                                | ALC40A271BB200 |
|                           | 330         | 22x40     | 428                             | 294                                     | 1.21                                | 1.95                                | ALC40A331AD200 |
|                           | 390         | 25x35     | 386                             | 271                                     | 1.24                                | 1.86                                | ALC40A391BC200 |
|                           | 470         | 25x40     | 320                             | 224                                     | 1.45                                | 2.19                                | ALC40A471BD200 |
|                           | 470         | 30x30     | 369                             | 270                                     | 1.24                                | 1.76                                | ALC40A471CB200 |
|                           | 560         | 30x35     | 301                             | 219                                     | 1.50                                | 2.13                                | ALC40A561CC200 |
|                           | 680         | 30x40     | 249                             | 181                                     | 1.72                                | 2.44                                | ALC40A681CD200 |
|                           | 680         | 40x30     | 202                             | 158                                     | 2.97                                | 3.67                                | ALC40A681EB200 |
|                           | 820         | 30x50     | 196                             | 140                                     | 2.18                                | 3.16                                | ALC40A821CF200 |
|                           | 820         | 35x35     | 252                             | 191                                     | 1.70                                | 2.34                                | ALC40A821DC200 |
|                           | 820         | 40x35     | 173                             | 137                                     | 3.35                                | 4.06                                | ALC40A821EC200 |
|                           | 1000        | 35x40     | 208                             | 158                                     | 1.95                                | 2.69                                | ALC40A102DD200 |
|                           | 1000        | 40x40     | 140                             | 110                                     | 3.92                                | 4.80                                | ALC40A102ED200 |
|                           | 1200        | 35x50     | 159                             | 119                                     | 2.50                                | 3.48                                | ALC40A122DF200 |
|                           | 1200        | 40x45     | 116                             | 91                                      | 4.50                                | 5.50                                | ALC40A122EE200 |
|                           | 1500        | 40x50     | 94                              | 74                                      | 5.13                                | 6.23                                | ALC40A152EF200 |
|                           | 1800        | 40x60     | 76                              | 60                                      | 6.10                                | 7.53                                | ALC40A182EH200 |
|                           | 2700        | 40x80     | 52                              | 41                                      | 7.62                                | 9.32                                | ALC40A272EL200 |
|                           | 3900        | 40x105    | 49                              | 34                                      | 7.90                                | 12.31                               | ALC40A392EP200 |
| 250V d.c.<br>(287V surge) | 150         | 22x30     | 823                             | 552                                     | 0.76                                | 1.32                                | ALC40A151AB250 |
|                           | 180         | 22x40     | 674                             | 448                                     | 0.96                                | 1.73                                | ALC40A181AD250 |
|                           | 220         | 22x40     | 559                             | 374                                     | 1.04                                | 1.82                                | ALC40A221AD250 |
|                           | 220         | 25x30     | 592                             | 405                                     | 0.93                                | 1.50                                | ALC40A221BB250 |
|                           | 270         | 25x35     | 480                             | 327                                     | 1.10                                | 1.77                                | ALC40A271BC250 |
|                           | 330         | 25x40     | 393                             | 268                                     | 1.29                                | 2.08                                | ALC40A331BD250 |
|                           | 330         | 30x30     | 441                             | 312                                     | 1.13                                | 1.69                                | ALC40A331CB250 |
|                           | 390         | 30x35     | 364                             | 256                                     | 1.36                                | 2.04                                | ALC40A391CC250 |
|                           | 470         | 30x40     | 302                             | 212                                     | 1.56                                | 2.34                                | ALC40A471CD250 |
|                           | 470         | 40x30     | 258                             | 193                                     | 2.59                                | 3.49                                | ALC40A471EB250 |
|                           | 560         | 30x50     | 243                             | 168                                     | 1.96                                | 3.02                                | ALC40A561CF250 |
|                           | 560         | 35x35     | 297                             | 217                                     | 1.57                                | 2.25                                | ALC40A561DC250 |
|                           | 560         | 40x35     | 221                             | 166                                     | 3.05                                | 4.16                                | ALC40A561EC250 |
|                           | 680         | 35x40     | 245                             | 179                                     | 1.80                                | 2.59                                | ALC40A681DD250 |
|                           | 680         | 40x40     | 180                             | 134                                     | 3.49                                | 4.76                                | ALC40A681ED250 |
|                           | 820         | 35x50     | 190                             | 137                                     | 3.12                                | 4.66                                | ALC40A821DF250 |
|                           | 820         | 40x45     | 149                             | 111                                     | 4.01                                | 5.46                                | ALC40A821EE250 |
|                           | 1000        | 35x60     | 164                             | 125                                     | 3.61                                | 5.78                                | ALC40A102DH250 |
|                           | 1000        | 40x50     | 123                             | 92                                      | 4.58                                | 6.22                                | ALC40A102EF250 |
|                           | 1200        | 40x55     | 106                             | 80                                      | 4.93                                | 6.51                                | ALC40A122EG250 |
|                           | 1500        | 35x80     | 112                             | 90                                      | 4.43                                | 6.88                                | ALC40A152DL250 |
|                           | 1800        | 40x80     | 67                              | 50                                      | 6.77                                | 9.27                                | ALC40A182EL250 |
|                           | 2700        | 40x105    | 62                              | 42                                      | 7.05                                | 12.03                               | ALC40A272EP250 |

Note: Values of E.S.R. and Impedance quoted above are maximum

| Rated voltage             | Cap<br>μF | Case<br>Size | ESR mΩ at 20°C<br>100Hz | Impedance mΩ<br>at 20°C, 10 KHz | Ripple current A at 105°C<br>100 Hz | Ripple current A at 105°C<br>10 KHz | Type number    |
|---------------------------|-----------|--------------|-------------------------|---------------------------------|-------------------------------------|-------------------------------------|----------------|
| 350V d.c.<br>(385V surge) | 82        | 22x30        | 1233                    | 789                             | 0.67                                | 1.69                                | ALC40A820AB350 |
|                           | 100       | 22x40        | 1002                    | 638                             | 0.83                                | 2.12                                | ALC40A101AD350 |
|                           | 120       | 22x40        | 841                     | 537                             | 0.91                                | 2.27                                | ALC40A121AD350 |
|                           | 120       | 25x30        | 868                     | 562                             | 0.88                                | 2.07                                | ALC40A121BB350 |
|                           | 150       | 25x35        | 694                     | 449                             | 1.04                                | 2.46                                | ALC40A151BC350 |
|                           | 180       | 25x40        | 578                     | 374                             | 1.20                                | 2.81                                | ALC40A181BD350 |
|                           | 180       | 30x30        | 618                     | 410                             | 1.17                                | 2.46                                | ALC40A181CB350 |
|                           | 220       | 30x35        | 502                     | 332                             | 1.36                                | 2.88                                | ALC40A221CC350 |
|                           | 270       | 30x40        | 410                     | 272                             | 1.59                                | 3.33                                | ALC40A271CD350 |
|                           | 270       | 40x30        | 448                     | 291                             | 1.97                                | 4.36                                | ALC40A271EB350 |
|                           | 330       | 35x35        | 378                     | 260                             | 1.79                                | 3.24                                | ALC40A331DC350 |
|                           | 390       | 30x50        | 287                     | 191                             | 2.02                                | 4.02                                | ALC40A391CF350 |
|                           | 390       | 35x40        | 317                     | 218                             | 2.02                                | 3.67                                | ALC40A391DD350 |
|                           | 390       | 40x40        | 312                     | 203                             | 2.64                                | 5.73                                | ALC40A391ED350 |
|                           | 470       | 35x50        | 251                     | 170                             | 2.72                                | 4.90                                | ALC40A471DF350 |
|                           | 470       | 40x45        | 258                     | 168                             | 3.00                                | 6.46                                | ALC40A471EE350 |
|                           | 560       | 35x50        | 224                     | 155                             | 2.57                                | 4.44                                | ALC40A561DF350 |
|                           | 560       | 35x60        | 224                     | 155                             | 3.11                                | 5.70                                | ALC40A561DH350 |
|                           | 560       | 40x50        | 216                     | 141                             | 3.41                                | 7.27                                | ALC40A561EF350 |
|                           | 680       | 40x60        | 177                     | 114                             | 3.99                                | 8.39                                | ALC40A681EH350 |
|                           | 820       | 35x80        | 150                     | 102                             | 3.82                                | 6.72                                | ALC40A821DL350 |
|                           | 1000      | 40x80        | 120                     | 78                              | 5.00                                | 9.98                                | ALC40A102EL350 |
|                           | 1500      | 40x105       | 99                      | 68                              | 6.00                                | 11.47                               | ALC40A152EP350 |
| 400V d.c.<br>(440V surge) | 68        | 22x30        | 1717                    | 1123                            | 0.65                                | 1.71                                | ALC40A680AB400 |
|                           | 82        | 22x40        | 1415                    | 923                             | 0.80                                | 2.14                                | ALC40A820AD400 |
|                           | 100       | 22x40        | 1166                    | 762                             | 0.88                                | 2.30                                | ALC40A101AD400 |
|                           | 100       | 25x30        | 1193                    | 788                             | 0.85                                | 2.09                                | ALC40A101BB400 |
|                           | 120       | 25x35        | 991                     | 653                             | 1.00                                | 2.45                                | ALC40A121BC400 |
|                           | 150       | 25x40        | 794                     | 524                             | 1.17                                | 2.83                                | ALC40A151BD400 |
|                           | 150       | 30x30        | 835                     | 562                             | 1.14                                | 2.46                                | ALC40A151CB400 |
|                           | 180       | 30x35        | 690                     | 463                             | 1.31                                | 2.88                                | ALC40A181CC400 |
|                           | 220       | 30x40        | 565                     | 379                             | 1.54                                | 3.33                                | ALC40A221CD400 |
|                           | 220       | 40x30        | 521                     | 320                             | 1.88                                | 4.36                                | ALC40A221EB400 |
|                           | 270       | 35x35        | 470                     | 322                             | 1.73                                | 3.23                                | ALC40A271DC400 |
|                           | 270       | 40x35        | 430                     | 266                             | 2.21                                | 4.95                                | ALC40A271EC400 |
|                           | 330       | 30x50        | 383                     | 258                             | 1.98                                | 4.02                                | ALC40A331CF400 |
|                           | 330       | 35x40        | 386                     | 266                             | 1.98                                | 3.64                                | ALC40A331DD400 |
|                           | 330       | 40x40        | 350                     | 216                             | 2.56                                | 5.76                                | ALC40A331ED400 |
|                           | 390       | 35x50        | 323                     | 221                             | 2.64                                | 4.66                                | ALC40A391DF400 |
|                           | 390       | 40x45        | 295                     | 182                             | 2.88                                | 6.48                                | ALC40A391EE400 |
|                           | 470       | 35x50        | 277                     | 192                             | 2.51                                | 4.40                                | ALC40A471DF400 |
|                           | 470       | 35x60        | 270                     | 185                             | 3.04                                | 5.78                                | ALC40A471DH400 |
|                           | 470       | 40x50        | 245                     | 151                             | 3.28                                | 7.30                                | ALC40A471EF400 |
|                           | 560       | 40x55        | 209                     | 130                             | 3.62                                | 7.78                                | ALC40A561EG400 |
|                           | 680       | 35x80        | 200                     | 131                             | 3.72                                | 6.69                                | ALC40A681DL400 |
|                           | 680       | 40x60        | 173                     | 107                             | 4.08                                | 8.58                                | ALC40A681EH400 |
|                           | 1000      | 40x80        | 118                     | 73                              | 4.85                                | 10.16                               | ALC40A102EL400 |
|                           | 1200      | 40x105       | 103                     | 70                              | 5.76                                | 11.46                               | ALC40A122EP400 |

Note: Values of E.S.R. and Impedance quoted above are maximum

| Rated voltage             | Cap<br>μF | Case<br>Size | ESR mΩ at 20°C<br>100Hz | Impedance mΩ<br>at 20°C,10 KHz | Ripple current A at 105°C<br>100 Hz | 10 KHz | Type number    |
|---------------------------|-----------|--------------|-------------------------|--------------------------------|-------------------------------------|--------|----------------|
| 450V d.c.<br>(495V surge) | 33        | 22x30        | 2851                    | 1971                           | 0.51                                | 1.38   | ALC40A330AB450 |
|                           | 47        | 22x40        | 2002                    | 1385                           | 0.67                                | 1.84   | ALC40A470AD450 |
|                           | 47        | 25x30        | 2011                    | 1392                           | 0.66                                | 1.74   | ALC40A470BB450 |
|                           | 56        | 25x35        | 1687                    | 1168                           | 0.76                                | 2.03   | ALC40A560BC450 |
|                           | 68        | 25x40        | 1391                    | 963                            | 0.88                                | 2.34   | ALC40A680BD450 |
|                           | 68        | 30x30        | 1403                    | 974                            | 0.87                                | 2.19   | ALC40A680CB450 |
|                           | 82        | 30x35        | 1163                    | 807                            | 1.01                                | 2.54   | ALC40A820CC450 |
|                           | 100       | 30x40        | 955                     | 663                            | 1.18                                | 2.95   | ALC40A101CD450 |
|                           | 120       | 35x35        | 810                     | 565                            | 1.36                                | 3.11   | ALC40A121DC450 |
|                           | 150       | 30x50        | 642                     | 446                            | 1.54                                | 3.67   | ALC40A151CF450 |
|                           | 150       | 35x40        | 651                     | 454                            | 1.57                                | 3.53   | ALC40A151DD450 |
|                           | 150       | 40x30        | 642                     | 447                            | 1.73                                | 4.14   | ALC40A151EB450 |
|                           | 180       | 35x50        | 541                     | 377                            | 1.88                                | 4.27   | ALC40A181DF450 |
|                           | 180       | 40x35        | 538                     | 374                            | 2.01                                | 4.70   | ALC40A181EC450 |
|                           | 220       | 35x50        | 449                     | 315                            | 2.28                                | 4.71   | ALC40A221DF450 |
|                           | 220       | 40x40        | 440                     | 306                            | 2.34                                | 5.47   | ALC40A221ED450 |
|                           | 270       | 40x50        | 356                     | 248                            | 2.80                                | 6.74   | ALC40A271EF450 |
|                           | 330       | 35x60        | 285                     | 198                            | 2.91                                | 5.53   | ALC40A331DH450 |
|                           | 330       | 40x55        | 293                     | 204                            | 3.14                                | 7.29   | ALC40A331EG450 |
|                           | 390       | 40x60        | 249                     | 174                            | 3.50                                | 8.04   | ALC40A391EH450 |
|                           | 470       | 35x80        | 203                     | 138                            | 3.51                                | 6.68   | ALC40A471DL450 |
|                           | 560       | 40x80        | 175                     | 122                            | 4.32                                | 9.57   | ALC40A561EL450 |
|                           | 820       | 40x105       | 121                     | 85                             | 5.34                                | 11.05  | ALC40A821EP450 |

Note: Values of E.S.R. and Impedance quoted above are maximum