## STANDARD/EXTENDED RATINGS: CLR79, M39006/22-XXXX

| CAPACITANCE (µF) | CASE CODE | CAP. TOL. (± %) | PART NO. M39006/22-* FAILURE RATE LEVEL (%/1000 h) | | | MAX. DCL (µA) at | | MAX. DF at + 25 °C (%) | MAX. IMP. at - 55 °C (Ω) | MAX. CAPACITANCE CHANGE (%) at | | | MAX.** RIPPLE CURRENT at + 85 °C 40 kHz (mA) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | M 1.0 | P 0.1 | R 0.01 | + 25 °C | + 85 °C + 125 °C | | | - 55 °C | + 85 °C | + 125 °C | |
| 125 WVDC at + 85 °C . . . 85 WVDC at + 125 °C | | | | | | | | | | | | | |
| 1.7 | T1 | 20 | 0201 | 0421 | 0641 | 1.0 | 2.0 | 2 | 1250 | - 16 | + 7 | + 8 | 415 |
| 1.7 | T1 | 10 | 0202 | 0422 | 0642 | 1.0 | 2.0 | 2 | 1250 | - 16 | + 7 | + 8 | 415 |
| 1.7 | T1 | 5 | 0203 | 0423 | 0643 | 1.0 | 2.0 | 2 | 1250 | - 16 | + 7 | + 8 | 415 |
| 3.6 | T1 | 20 | 0204 | 0424 | 0644 | 1.0 | 2.0 | 2.7 | 600 | - 16 | + 7 | + 8 | 520 |
| 3.6 | T1 | 10 | 0205 | 0425 | 0645 | 1.0 | 2.0 | 2.7 | 600 | - 16 | + 7 | + 8 | 520 |
| 3.6 | T1 | 5 | 0206 | 0426 | 0646 | 1.0 | 2.0 | 2.7 | 600 | - 16 | + 7 | + 8 | 520 |
| 9.0 | T2 | 20 | 0207 | 0427 | 0647 | 1.0 | 5.0 | 5 | 240 | - 16 | + 7 | + 8 | 755 |
| 9.0 | T2 | 10 | 0208 | 0428 | 0648 | 1.0 | 5.0 | 5 | 240 | - 16 | + 7 | + 8 | 755 |
| 9.0 | T2 | 5 | 0209 | 0429 | 0649 | 1.0 | 5.0 | 5 | 240 | - 16 | + 7 | + 8 | 755 |
| 14.0 | T2 | 20 | 0210 | 0430 | 0650 | 1.0 | 7.0 | 6 | 167 | - 16 | + 7 | + 8 | 860 |
| 14.0 | T2 | 10 | 0211 | 0431 | 0651 | 1.0 | 7.0 | 6 | 167 | - 16 | + 7 | + 8 | 860 |
| 14.0 | T2 | 5 | 0212 | 0432 | 0652 | 1.0 | 7.0 | 6 | 167 | - 16 | + 7 | + 8 | 860 |
| 18.0 | T3 | 20 | 0213 | 0433 | 0653 | 2.0 | 9.0 | 5 | 129 | - 16 | + 7 | + 8 | 1130 |
| 18.0 | T3 | 10 | 0214 | 0434 | 0654 | 2.0 | 9.0 | 5 | 129 | - 16 | + 7 | + 8 | 1130 |
| 18.0 | T3 | 5 | 0215 | 0435 | 0655 | 2.0 | 9.0 | 5 | 129 | - 16 | + 7 | + 8 | 1130 |
| 25.0 | T3 | 20 | 0216 | 0436 | 0656 | 2.0 | 13.0 | 6 | 93 | - 16 | + 7 | + 8 | 1200 |
| 25.0 | T3 | 10 | 0217 | 0437 | 0657 | 2.0 | 13.0 | 6 | 93 | - 16 | + 7 | + 8 | 1200 |
| 25.0 | T3 | 5 | 0218 | 0438 | 0658 | 2.0 | 13.0 | 6 | 93 | - 16 | + 7 | + 8 | 1200 |
| 56.0 | T4 | 20 | 0219 | 0439 | 0659 | 10.0 | 40.0 | 6.5 | 32 | - 25 | + 15 | + 15 | 1800 |
| 56.0 | T4 | 10 | 0220 | 0440 | 0660 | 10.0 | 40.0 | 6.5 | 32 | - 25 | + 15 | + 15 | 1800 |

**Notes**

* Dash number will include the letter “H” to indicate the optional vibration and shock requirements (i.e., 51 g random vibration, 80 g sinusoidal vibration and 500 g shock).

** For ripple current limits at various temperatures, voltages and frequencies, see Ripple Current Table.

## STANDARD/EXTENDED RATINGS: CLR81, M39006/25-XXXX

| CAPACITANCE (µF) | CASE CODE | CAP. TOL. (± %) | PART NO. M39006/25-* FAILURE RATE LEVEL (%/1000 h) | | | MAX. DCL (µA) at | | MAX. DF at + 25 °C (%) | MAX. IMP. at - 55 °C (Ω) | MAX. CAPACITANCE CHANGE (%) at | | | MAX.** RIPPLE CURRENT at + 85 °C 40 kHz (mA) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | M 1.0 | P 0.1 | R 0.01 | + 25 °C | + 85 °C + 125 °C | | | - 55 °C | + 85 °C | + 125 °C | |
| 6 WVDC at + 85 °C . . . 4 WVDC at + 125 °C | | | | | | | | | | | | | |
| 220.0 | T1 | 20 | 0001 | 0089 | 0177 | 2.0 | 9.0 | 50 | 36 | - 64 | + 13 | + 16 | 1000 |
| 220.0 | T1 | 10 | 0002 | 0090 | 0178 | 2.0 | 9.0 | 50 | 36 | - 64 | + 13 | + 16 | 1000 |
| 820.0 | T2 | 20 | 0003 | 0091 | 0179 | 3.0 | 14.0 | 155 | 18 | - 88 | + 16 | + 20 | 1500 |
| 820.0 | T2 | 10 | 0004 | 0092 | 0180 | 3.0 | 14.0 | 155 | 18 | - 88 | + 16 | + 20 | 1500 |
| 1500.0 | T3 | 20 | 0005 | 0093 | 0181 | 5.0 | 20.0 | 172 | 18 | - 90 | + 20 | + 25 | 1900 |
| 1500.0 | T3 | 10 | 0006 | 0094 | 0182 | 5.0 | 20.0 | 172 | 18 | - 90 | + 20 | + 25 | 1900 |
| 2200.0 | T4 | 20 | 0007 | 0095 | 0183 | 6.0 | 24.0 | 170 | 13 | - 90 | + 25 | + 30 | 2300 |
| 2200.0 | T4 | 10 | 0008 | 0096 | 0184 | 6.0 | 24.0 | 170 | 13 | - 90 | + 25 | + 30 | 2300 |
| 8 WVDC at + 85 °C . . . 5 WVDC at + 125 °C | | | | | | | | | | | | | |
| 180.0 | T1 | 20 | 0009 | 0097 | 0185 | 2.0 | 9.0 | 41 | 45 | - 60 | + 13 | + 16 | 1000 |
| 180.0 | T1 | 10 | 0010 | 0098 | 0186 | 2.0 | 9.0 | 41 | 45 | - 60 | + 13 | + 16 | 1000 |
| 680.0 | T2 | 20 | 0011 | 0099 | 0187 | 3.0 | 14.0 | 130 | 22 | - 83 | + 16 | + 20 | 1500 |
| 680.0 | T2 | 10 | 0012 | 0100 | 0188 | 3.0 | 14.0 | 130 | 22 | - 83 | + 16 | + 20 | 1500 |
| 1500.0 | T3 | 20 | 0013 | 0101 | 0189 | 5.0 | 20.0 | 170 | 18 | - 90 | + 20 | + 25 | 1900 |
| 1500.0 | T3 | 10 | 0014 | 0102 | 0190 | 5.0 | 20.0 | 170 | 18 | - 90 | + 20 | + 25 | 1900 |
| 1800.0 | T4 | 20 | 0015 | 0103 | 0191 | 7.0 | 25.0 | 138 | 14 | - 90 | + 25 | + 30 | 2300 |
| 1800.0 | T4 | 10 | 0016 | 0104 | 0192 | 7.0 | 25.0 | 138 | 14 | - 90 | + 25 | + 30 | 2300 |

**Notes**

* Dash number will include the letter “H” to indicate the optional vibration and shock requirements (i.e., 51 g random vibration, 80 g sinusoidal vibration and 500 g shock).

** For ripple current limits at various temperatures, voltages and frequencies, see Ripple Current Table.

## STANDARD/EXTENDED RATINGS: CLR81, M39006/25-XXXX

| CAPACITANCE (µF) | CASE CODE | CAP. TOL. (± %) | PART NO. M39006/25-* FAILURE RATE LEVEL (%/1000 h) | | | MAX. DCL (µA) at | | MAX. DF at | MAX. IMP. at | MAX. CAPACITANCE CHANGE (%) at | | | MAX.** RIPPLE CURRENT at + 85 °C 40 kHz (mA) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | M 1.0 | P 0.1 | R 0.01 | + 25 °C | + 85 °C + 125 °C | + 25 °C (%) | - 55 °C (Ω) | - 55 °C | + 85 °C | + 125 °C | |
| **10 WVDC at + 85 °C . . . 7 WVDC at + 125 °C** | | | | | | | | | | | | | |
| 150.0 | T1 | 20 | 0017 | 0105 | 0193 | 2.0 | 9.0 | 34 | 54 | - 55 | + 13 | + 16 | 900 |
| 150.0 | T1 | 10 | 0018 | 0106 | 0194 | 2.0 | 9.0 | 34 | 54 | - 55 | + 13 | + 16 | 900 |
| 560.0 | T2 | 20 | 0019 | 0107 | 0195 | 3.0 | 16.0 | 106 | 27 | - 77 | + 16 | + 20 | 1450 |
| 560.0 | T2 | 10 | 0020 | 0108 | 0196 | 3.0 | 16.0 | 106 | 27 | - 77 | + 16 | + 20 | 1450 |
| 1200.0 | T3 | 20 | 0021 | 0109 | 0197 | 5.0 | 20.0 | 137 | 18 | - 88 | + 20 | + 25 | 1850 |
| 1200.0 | T3 | 10 | 0022 | 0110 | 0198 | 5.0 | 20.0 | 137 | 18 | - 88 | + 20 | + 25 | 1850 |
| 1500.0 | T4 | 20 | 0023 | 0111 | 0199 | 7.0 | 25.0 | 114 | 15 | - 88 | + 25 | + 30 | 2300 |
| 1500.0 | T4 | 10 | 0024 | 0112 | 0200 | 7.0 | 25.0 | 114 | 15 | - 88 | + 25 | + 30 | 2300 |
| **15 WVDC at + 85 °C . . . 10 WVDC at + 125 °C** | | | | | | | | | | | | | |
| 100.0 | T1 | 20 | 0025 | 0113 | 0201 | 2.0 | 9.0 | 30 | 72 | - 44 | + 13 | + 16 | 900 |
| 100.0 | T1 | 10 | 0026 | 0114 | 0202 | 2.0 | 9.0 | 30 | 72 | - 44 | + 13 | + 16 | 900 |
| 390.0 | T2 | 20 | 0027 | 0115 | 0203 | 3.0 | 16.0 | 74 | 31 | - 66 | + 16 | + 20 | 1450 |
| 390.0 | T2 | 10 | 0028 | 0116 | 0204 | 3.0 | 16.0 | 74 | 31 | - 66 | + 16 | + 20 | 1450 |
| 820.0 | T3 | 20 | 0029 | 0117 | 0205 | 6.0 | 24.0 | 111 | 22 | - 77 | + 20 | + 25 | 1800 |
| 820.0 | T3 | 10 | 0030 | 0118 | 0206 | 6.0 | 24.0 | 111 | 22 | - 77 | + 20 | + 25 | 1800 |
| 1000.0 | T4 | 20 | 0031 | 0119 | 0207 | 8.0 | 32.0 | 92 | 17 | - 77 | + 25 | + 30 | 2300 |
| 1000.0 | T4 | 10 | 0032 | 0120 | 0208 | 8.0 | 32.0 | 92 | 17 | - 77 | + 25 | + 30 | 2300 |
| **25 WVDC at + 85 °C . . . 15 WVDC at + 125 °C** | | | | | | | | | | | | | |
| 68.0 | T1 | 20 | 0033 | 0121 | 0209 | 2.0 | 9.0 | 22 | 90 | - 40 | + 12 | + 15 | 850 |
| 68.0 | T1 | 10 | 0034 | 0122 | 0210 | 2.0 | 9.0 | 22 | 90 | - 40 | + 12 | + 15 | 850 |
| 270.0 | T2 | 20 | 0035 | 0123 | 0211 | 3.0 | 16.0 | 55 | 33 | - 62 | + 13 | + 16 | 1400 |
| 270.0 | T2 | 10 | 0036 | 0124 | 0212 | 3.0 | 16.0 | 55 | 33 | - 62 | + 13 | + 16 | 1400 |
| 560.0 | T3 | 20 | 0037 | 0125 | 0213 | 7.0 | 28.0 | 76 | 24 | - 72 | + 20 | + 25 | 1750 |
| 560.0 | T3 | 10 | 0038 | 0126 | 0214 | 7.0 | 28.0 | 76 | 24 | - 72 | + 20 | + 25 | 1750 |
| 680.0 | T4 | 20 | 0039 | 0127 | 0215 | 8.0 | 32.0 | 63 | 19 | - 72 | + 25 | + 30 | 2100 |
| 680.0 | T4 | 10 | 0040 | 0128 | 0216 | 8.0 | 32.0 | 63 | 19 | - 72 | + 25 | + 30 | 2100 |
| **30 WVDC at + 85 °C . . . 20 WVDC at + 125 °C** | | | | | | | | | | | | | |
| 56.0 | T1 | 20 | 0041 | 0129 | 0217 | 2.0 | 9.0 | 22 | 100 | - 38 | + 12 | + 15 | 800 |
| 56.0 | T1 | 10 | 0042 | 0130 | 0218 | 2.0 | 9.0 | 22 | 100 | - 38 | + 12 | + 15 | 800 |
| 220.0 | T2 | 20 | 0043 | 0131 | 0219 | 3.0 | 16.0 | 42 | 36 | - 60 | + 13 | + 16 | 1200 |
| 220.0 | T2 | 10 | 0044 | 0132 | 0220 | 3.0 | 16.0 | 42 | 36 | - 60 | + 13 | + 16 | 1200 |
| 470.0 | T3 | 20 | 0045 | 0133 | 0221 | 8.0 | 32.0 | 64 | 25 | - 65 | + 20 | + 25 | 1500 |
| 470.0 | T3 | 10 | 0046 | 0134 | 0222 | 8.0 | 32.0 | 64 | 25 | - 65 | + 20 | + 25 | 1500 |
| 560.0 | T4 | 20 | 0047 | 0135 | 0223 | 9.0 | 36.0 | 55 | 20 | - 65 | + 25 | + 30 | 2000 |
| 560.0 | T4 | 10 | 0048 | 0136 | 0224 | 9.0 | 36.0 | 55 | 20 | - 65 | + 25 | + 30 | 2000 |
| **50 WVDC at + 85 °C . . . 30 WVDC at + 125 °C** | | | | | | | | | | | | | |
| 33.0 | T1 | 20 | 0049 | 0137 | 0225 | 2.0 | 9.0 | 12.3 | 135 | - 29 | + 10 | + 12 | 700 |
| 33.0 | T1 | 10 | 0050 | 0138 | 0226 | 2.0 | 9.0 | 12.3 | 135 | - 29 | + 10 | + 12 | 700 |
| 120.0 | T2 | 20 | 0051 | 0139 | 0227 | 4.0 | 24.0 | 22.5 | 49 | - 42 | + 12 | + 15 | 1200 |
| 120.0 | T2 | 10 | 0052 | 0140 | 0228 | 4.0 | 24.0 | 22.5 | 49 | - 42 | + 12 | + 15 | 1200 |
| 270.0 | T3 | 20 | 0053 | 0141 | 0229 | 8.0 | 32.0 | 37 | 29 | - 46 | + 20 | + 25 | 1450 |
| 270.0 | T3 | 10 | 0054 | 0142 | 0230 | 8.0 | 32.0 | 37 | 29 | - 46 | + 20 | + 25 | 1450 |
| 330.0 | T4 | 20 | 0055 | 0143 | 0231 | 9.0 | 36.0 | 38 | 22 | - 46 | + 25 | + 30 | 1900 |
| 330.0 | T4 | 10 | 0056 | 0144 | 0232 | 9.0 | 36.0 | 38 | 22 | - 46 | + 25 | + 30 | 1900 |
| **60 WVDC at + 85 °C . . . 40 WVDC at + 125 °C** | | | | | | | | | | | | | |
| 27.0 | T1 | 20 | 0057 | 0145 | 0233 | 3.0 | 12.0 | 10.2 | 144 | - 24 | + 10 | + 12 | 700 |
| 27.0 | T1 | 10 | 0058 | 0146 | 0234 | 3.0 | 12.0 | 10.2 | 144 | - 24 | + 10 | + 12 | 700 |
| 100.0 | T2 | 20 | 0059 | 0147 | 0235 | 4.0 | 20.0 | 19 | 54 | - 36 | + 12 | + 15 | 1100 |
| 100.0 | T2 | 10 | 0060 | 0148 | 0236 | 4.0 | 20.0 | 19 | 54 | - 36 | + 12 | + 15 | 1100 |
| 220.0 | T3 | 20 | 0061 | 0149 | 0237 | 8.0 | 32.0 | 30 | 29 | - 40 | + 16 | + 20 | 1400 |
| 220.0 | T3 | 10 | 0062 | 0150 | 0238 | 8.0 | 32.0 | 30 | 29 | - 40 | + 16 | + 20 | 1400 |
| 270.0 | T4 | 20 | 0063 | 0151 | 0239 | 9.0 | 36.0 | 27 | 23 | - 45 | + 20 | + 25 | 1850 |
| 270.0 | T4 | 10 | 0064 | 0152 | 0240 | 9.0 | 36.0 | 27 | 23 | - 45 | + 20 | + 25 | 1850 |

**Notes**

* Dash number will include the letter “H” to indicate the optional vibration and shock requirements (i.e., 51 g random vibration, 80 g sinusoidal vibration and 500 g shock).

** For ripple current limits at various temperatures, voltages and frequencies, see Ripple Current Table.

## STANDARD/EXTENDED RATINGS: CLR81, M39006/25-XXXX

| CAPACITANCE (µF) | CASE CODE | CAP. TOL. (± %) | PART NO. M39006/25-* FAILURE RATE LEVEL (%/1000 h) | | | MAX. DCL (µA) at | | MAX. DF at | MAX. IMP. at | MAX.. CAPACITANCE CHANGE (%) at | | | MAX.** RIPPLE CURRENT at + 85 °C 40 kHz (mA) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | M 1.0 | P 0.1 | R 0.01 | + 25 °C | + 85 °C + 125 °C | + 25 °C (%) | - 55 °C (Ω) | - 55 °C | + 85 °C | + 125 °C | |
| **75 WVDC at + 85 °C . . . 50 WVDC at + 125 °C** | | | | | | | | | | | | | |
| 22.0 | T1 | 20 | 0065 | 0153 | 0241 | 3.0 | 12.0 | 8.5 | 157 | - 19 | + 10 | + 12 | 600 |
| 22.0 | T1 | 10 | 0066 | 0154 | 0242 | 3.0 | 12.0 | 8.5 | 157 | - 19 | + 10 | + 12 | 600 |
| 82.0 | T2 | 20 | 0067 | 0155 | 0243 | 4.0 | 24.0 | 15.2 | 63 | - 30 | + 12 | + 15 | 1000 |
| 82.0 | T2 | 10 | 0068 | 0156 | 0244 | 4.0 | 24.0 | 15.2 | 63 | - 30 | + 12 | + 15 | 1000 |
| 180.0 | T3 | 20 | 0069 | 0157 | 0245 | 9.0 | 36.0 | 24.4 | 30 | - 35 | + 16 | + 20 | 1300 |
| 180.0 | T3 | 10 | 0070 | 0158 | 0246 | 9.0 | 36.0 | 24.4 | 30 | - 35 | + 16 | + 20 | 1300 |
| 220.0 | T4 | 20 | 0071 | 0159 | 0247 | 10.0 | 40.0 | 37.0 | 24 | - 40 | + 20 | + 25 | 1800 |
| 220.0 | T4 | 10 | 0072 | 0160 | 0248 | 10.0 | 40.0 | 37.0 | 24 | - 40 | + 20 | + 25 | 1800 |
| **100 WVDC at + 85 °C . . . 65 WVDC at + 125 °C** | | | | | | | | | | | | | |
| 10.0 | T1 | 20 | 0073 | 0161 | 0249 | 3.0 | 12.0 | 4.5 | 200 | - 17 | + 10 | + 12 | 800 |
| 10.0 | T1 | 10 | 0074 | 0162 | 0250 | 3.0 | 12.0 | 4.5 | 200 | - 17 | + 10 | + 12 | 800 |
| 39.0 | T2 | 20 | 0075 | 0163 | 0251 | 5.0 | 24.0 | 10.4 | 80 | - 20 | + 12 | + 15 | 1300 |
| 39.0 | T2 | 10 | 0076 | 0164 | 0252 | 5.0 | 24.0 | 10.4 | 80 | - 20 | + 12 | + 15 | 1300 |
| 68.0 | T3 | 20 | 0077 | 0165 | 0253 | 10.0 | 40.0 | 11.3 | 40 | - 30 | + 14 | + 16 | 1600 |
| 68.0 | T3 | 10 | 0078 | 0166 | 0254 | 10.0 | 40.0 | 11.3 | 40 | - 30 | + 14 | + 16 | 1600 |
| 120.0 | T4 | 20 | 0079 | 0167 | 0255 | 12.0 | 48.0 | 25 | 30 | - 35 | + 15 | + 17 | 2000 |
| 120.0 | T4 | 10 | 0080 | 0168 | 0256 | 12.0 | 48.0 | 25 | 30 | - 35 | + 15 | + 17 | 2000 |
| **125 WVDC at + 85 °C . . . 85 WVDC at + 125 °C** | | | | | | | | | | | | | |
| 6.8 | T1 | 20 | 0081 | 0169 | 0257 | 3.0 | 12.0 | 6.0 | 300 | - 14 | + 10 | + 12 | 700 |
| 6.8 | T1 | 10 | 0082 | 0170 | 0258 | 3.0 | 12.0 | 6.0 | 300 | - 14 | + 10 | + 12 | 700 |
| 27.0 | T2 | 20 | 0083 | 0171 | 0259 | 5.0 | 24.0 | 7.2 | 90 | - 18 | + 12 | + 15 | 1200 |
| 27.0 | T2 | 10 | 0084 | 0172 | 0260 | 5.0 | 24.0 | 7.2 | 90 | - 18 | + 12 | + 15 | 1200 |
| 47.0 | T3 | 20 | 0085 | 0173 | 0261 | 10.0 | 40.0 | 7.9 | 50 | - 26 | + 14 | + 16 | 1500 |
| 47.0 | T3 | 10 | 0086 | 0174 | 0262 | 10.0 | 40.0 | 7.9 | 50 | - 26 | + 14 | + 16 | 1500 |
| 82.0 | T4 | 20 | 0087 | 0175 | 0263 | 12.0 | 48.0 | 17.4 | 32 | - 30 | + 15 | + 17 | 1900 |
| 82.0 | T4 | 10 | 0088 | 0176 | 0264 | 12.0 | 48.0 | 17.4 | 32 | - 30 | + 15 | + 17 | 1900 |

**Notes**

* Dash number will include the letter “H” to indicate the optional vibration and shock requirements (i.e., 51 g random vibration, 80 g sinusoidal vibration and 500 g shock).

** For ripple current limits at various temperatures, voltages and frequencies, see Ripple Current Table.

## CLR79, CLR81 RIPPLE CURRENT MULTIPLIERS VS. FREQUENCY, TEMPERATURE AND APPLIED PEAK VOLTAGE

| FREQUENCY OF APPLIED RIPPLE CURRENT | | 120 Hz | | | | 800 Hz | | | | 1 kHz | | | | 10 kHz | | | | 40 kHz | | | | 100 kHz | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AMBIENT STILL AIR | | TEMP °C | | | | TEMP °C | | | | TEMP °C | | | | TEMP °C | | | | TEMP °C | | | | TEMP °C | | | |
| | | ≤ 55 | 85 | 105 | 125 | ≤ 55 | 85 | 105 | 125 | ≤ 55 | 85 | 105 | 125 | ≤ 55 | 85 | 105 | 125 | ≤ 55 | 85 | 105 | 125 | ≤ 55 | 85 | 105 | 125 |
| % of APPLIED VOLTAGE | 100 % | 0.60 | 0.39 | - | - | 0.71 | 0.43 | - | - | 0.72 | 0.46 | - | - | 0.88 | 0.55 | - | - | 1.0 | 0.63 | - | - | 1.1 | 0.69 | - | - |
| | 90 % | 0.60 | 0.46 | - | - | 0.71 | 0.55 | - | - | 0.72 | 0.55 | - | - | 0.88 | 0.67 | - | - | 1.0 | 0.77 | - | - | 1.1 | 0.85 | - | - |
| | 80 % | 0.60 | 0.52 | 0.35 | - | 0.71 | 0.62 | 0.42 | - | 0.72 | 0.62 | 0.42 | - | 0.88 | 0.76 | 0.52 | - | 1.0 | 0.87 | 0.59 | - | 1.1 | 0.96 | 0.65 | - |
| | 70 % | 0.60 | 0.58 | 0.44 | - | 0.71 | 0.69 | 0.52 | - | 0.72 | 0.70 | 0.52 | - | 0.88 | 0.85 | 0.64 | - | 1.0 | 0.97 | 0.73 | - | 1.1 | 1.07 | 0.80 | - |
| | 66 2/3 % | 0.60 | 0.60 | 0.46 | 0.27 | 0.71 | 0.71 | 0.55 | 0.32 | 0.72 | 0.72 | 0.55 | 0.32 | 0.88 | 0.88 | 0.68 | 0.40 | 1.0 | 1.0 | 0.77 | 0.45 | 1.1 | 1.1 | 0.85 | 0.50 |

**Notes**

1. At + 125 °C the rated voltage of the capacitors decreases to 66 2/3 percent of the + 85 °C rated voltage.
2. The peak of the applied AC ripple voltage plus the applied DC voltage must not exceed the DC voltage rating of the capacitor eitherforward or reverse.
3. The ripple current listed represents a rating calculated using a maximum internal temperature rise (ΔT) of + 50 °C at 40 kHz at + 85 °C ambient with a maximum peak rated voltage of 66 2/3 percent of the + 85 °C peak voltage rating.
4. The maximum allowable internal temperature rise (ΔT) decreases linearly to a calculated + 10 °C rise at + 125 °C ambient.
5. The internal temperature rise is directly proportional to the equivalent series resistance of the capacitor and equivalent series resistance increases with decreasing frequency.