

Actual Situation of Lead Free Soldering for SMC

November 10th, 2008

All following SMC capacitors, with manufacturing code WD (December 2008) and later, are capable to fulfil the recommended reflow soldering profile for lead free process presented at end of this document.

| Capacitance µF | Size code | Dimensions in mm ±0.2 | | Max dU/dt V/µs | Article code | Capacitance µF | Size code | Dimensions in mm ±0.2 | | Max dU/dt V/µs | Article code |
|-------------------------------------|--------------|--------------------------|-----|----------------------|-----------------------|--------------------------------------|--------------|--------------------------|-----|----------------------|------------------------|
| B | H | B | H | | | B | H | B | H | | |
| 50 VDC/30 VAC | | | | | | 50 VDC/30 VAC | | | | | |
| CHIP LENGTH 5.7 MM CODE 2220 | | | | | | CHIP LENGTH 10.2 MM CODE 4036 | | | | | |
| 0.0010 | J31 | 5.0 | 2.5 | 20 | SMC5.7 102J50J31 TR12 | 0.010 | A31 | 9.1 | 5.5 | 4 | SMC10.2 103J50A31 TR16 |
| 0.0012 | J31 | 5.0 | 2.5 | 20 | SMC5.7 122J50J31 TR12 | 0.012 | A31 | 9.1 | 5.5 | 4 | SMC10.2 123J50A31 TR16 |
| 0.0015 | J31 | 5.0 | 2.5 | 20 | SMC5.7 152J50J31 TR12 | 0.015 | A31 | 9.1 | 5.5 | 4 | SMC10.2 153J50A31 TR16 |
| 0.0018 | J31 | 5.0 | 2.5 | 20 | SMC5.7 182J50J31 TR12 | 0.018 | A31 | 9.1 | 5.5 | 4 | SMC10.2 183J50A31 TR16 |
| 0.0022 | J31 | 5.0 | 2.5 | 20 | SMC5.7 222J50J31 TR12 | 0.022 | A31 | 9.1 | 5.5 | 4 | SMC10.2 223J50A31 TR16 |
| 0.0027 | J31 | 5.0 | 2.5 | 20 | SMC5.7 272J50J31 TR12 | 0.027 | A31 | 9.1 | 5.5 | 4 | SMC10.2 273J50A31 TR16 |
| 0.0033 | J31 | 5.0 | 2.5 | 20 | SMC5.7 332J50J31 TR12 | 0.033 | A31 | 9.1 | 5.5 | 4 | SMC10.2 333J50A31 TR16 |
| 0.0039 | J31 | 5.0 | 2.5 | 20 | SMC5.7 392J50J31 TR12 | 0.039 | A31 | 9.1 | 5.5 | 4 | SMC10.2 393J50A31 TR16 |
| 0.0047 | J31 | 5.0 | 2.5 | 20 | SMC5.7 472J50J31 TR12 | 0.047 | A31 | 9.1 | 5.5 | 4 | SMC10.2 473J50A31 TR16 |
| 0.0056 | J31 | 5.0 | 2.5 | 20 | SMC5.7 562J50J31 TR12 | 0.056 | A31 | 9.1 | 5.5 | 4 | SMC10.2 563J50A31 TR16 |
| 0.0068 | J31 | 5.0 | 2.5 | 20 | SMC5.7 682J50J31 TR12 | 0.068 | A31 | 9.1 | 5.5 | 4 | SMC10.2 683J50A31 TR16 |
| 0.0082 | J31 | 5.0 | 2.5 | 20 | SMC5.7 822J50J31 TR12 | 0.082 | A31 | 9.1 | 5.5 | 4 | SMC10.2 823J50A31 TR16 |
| 0.010 | J31 | 5.0 | 2.5 | 20 | SMC5.7 103J50J31 TR12 | 0.10 | A31 | 9.1 | 5.5 | 4 | SMC10.2 104J50A31 TR16 |
| 0.012 | J31 | 5.0 | 2.5 | 20 | SMC5.7 123J50J31 TR12 | 0.12 | A31 | 9.1 | 5.5 | 4 | SMC10.2 124J50A31 TR16 |
| 0.015 | J31 | 5.0 | 2.5 | 15 | SMC5.7 153J50J31 TR12 | 0.15 | A31 | 9.1 | 5.5 | 4 | SMC10.2 154J50A31 TR16 |
| 0.018 | J31 | 5.0 | 2.5 | 15 | SMC5.7 183J50J31 TR12 | 0.18 | A31 | 9.1 | 5.5 | 4 | SMC10.2 184J50A31 TR16 |
| 0.022 | J31 | 5.0 | 2.5 | 15 | SMC5.7 223J50J31 TR12 | 0.22 | A31 | 9.1 | 5.5 | 4 | SMC10.2 224J50A31 TR16 |
| 0.027 | J31 | 5.0 | 2.5 | 15 | SMC5.7 273J50J31 TR12 | 0.27 | A31 | 9.1 | 5.5 | 4 | SMC10.2 274J50A31 TR16 |
| 0.033 | J31 | 5.0 | 2.5 | 15 | SMC5.7 333J50J31 TR12 | 0.33 | A31 | 9.1 | 5.5 | 4 | SMC10.2 334J50A31 TR16 |
| 0.039 | J33 | 5.0 | 3.0 | 6 | SMC5.7 393J50J33 TR12 | 0.39 | A31 | 9.1 | 5.5 | 4 | SMC10.2 394J50A31 TR16 |
| 0.047 | J33 | 5.0 | 3.0 | 6 | SMC5.7 473J50J33 TR12 | 0.47 | A31 | 9.1 | 5.5 | 4 | SMC10.2 474J50A31 TR16 |
| 0.056 | J35 | 5.0 | 4.0 | 6 | SMC5.7 563J50J35 TR12 | 0.56 | A31 | 9.1 | 5.5 | 4 | SMC10.2 564J50A31 TR16 |
| 0.068 | J35 | 5.0 | 4.0 | 6 | SMC5.7 683J50J35 TR12 | 0.68 | A31 | 9.1 | 5.5 | 4 | SMC10.2 684J50A31 TR16 |
| 0.082 | J35 | 5.0 | 4.0 | 6 | SMC5.7 823J50J35 TR12 | 0.82 | A31 | 9.1 | 5.5 | 4 | SMC10.2 824J50A31 TR16 |
| 0.10 | J35 | 5.0 | 4.0 | 6 | SMC5.7 104J50J35 TR12 | | | | | | |
| CHIP LENGTH 7.3 MM CODE 2824 | | | | | | CHIP LENGTH 12.7 MM CODE 5045 | | | | | |
| 0.0010 | K31 | 6.0 | 2.5 | 20 | SMC7.3 102J50K31 TR12 | 1.0 | B31 | 11.5 | 6.5 | 3 | SMC12.7 105J50B31 TR24 |
| 0.0012 | K31 | 6.0 | 2.5 | 20 | SMC7.3 122J50K31 TR12 | 1.2 | B31 | 11.5 | 6.5 | 3 | SMC12.7 125J50B31 TR24 |
| 0.0015 | K31 | 6.0 | 2.5 | 20 | SMC7.3 152J50K31 TR12 | 1.5 | B31 | 11.5 | 6.5 | 3 | SMC12.7 155J50B31 TR24 |
| 0.0018 | K31 | 6.0 | 2.5 | 20 | SMC7.3 182J50K31 TR12 | | | | | | |
| 0.0022 | K31 | 6.0 | 2.5 | 20 | SMC7.3 222J50K31 TR12 | CHIP LENGTH 16.5 MM CODE 6560 | | | | | |
| 0.0027 | K31 | 6.0 | 2.5 | 20 | SMC7.3 272J50K31 TR12 | 1.8 | C31 | 15.0 | 7.0 | 2 | SMC16.5 185J50C31 TR24 |
| 0.0033 | K31 | 6.0 | 2.5 | 20 | SMC7.3 332J50K31 TR12 | 2.2 | C31 | 15.0 | 7.0 | 2 | SMC16.5 225J50C31 TR24 |
| 0.0039 | K31 | 6.0 | 2.5 | 20 | SMC7.3 392J50K31 TR12 | 2.7 | C31 | 15.0 | 7.0 | 2 | SMC16.5 275J50C31 TR24 |
| 0.0047 | K31 | 6.0 | 2.5 | 20 | SMC7.3 472J50K31 TR12 | 3.3 | C31 | 15.0 | 7.0 | 2 | SMC16.5 335J50C31 TR24 |
| 0.0056 | K31 | 6.0 | 2.5 | 20 | SMC7.3 562J50K31 TR12 | | | | | | |
| 0.0068 | K31 | 6.0 | 2.5 | 20 | SMC7.3 682J50K31 TR12 | 100 VDC/63 VAC | | | | | |
| 0.0082 | K31 | 6.0 | 2.5 | 20 | SMC7.3 822J50K31 TR12 | CHIP LENGTH 5.7 MM CODE 2220 | | | | | |
| 0.010 | K31 | 6.0 | 2.5 | 20 | SMC7.3 103J50K31 TR12 | 0.0010 | J31 | 5.0 | 2.5 | 20 | SMC5.7 102J100J31 TR12 |
| 0.012 | K31 | 6.0 | 2.5 | 20 | SMC7.3 123J50K31 TR12 | 0.0012 | J31 | 5.0 | 2.5 | 20 | SMC5.7 122J100J31 TR12 |
| 0.015 | K31 | 6.0 | 2.5 | 20 | SMC7.3 153J50K31 TR12 | 0.0015 | J31 | 5.0 | 2.5 | 20 | SMC5.7 152J100J31 TR12 |
| 0.018 | K31 | 6.0 | 2.5 | 20 | SMC7.3 183J50K31 TR12 | 0.0018 | J31 | 5.0 | 2.5 | 20 | SMC5.7 182J100J31 TR12 |
| 0.022 | K31 | 6.0 | 2.5 | 20 | SMC7.3 223J50K31 TR12 | 0.0022 | J31 | 5.0 | 2.5 | 20 | SMC5.7 222J100J31 TR12 |
| 0.027 | K31 | 6.0 | 2.5 | 20 | SMC7.3 273J50K31 TR12 | 0.0027 | J31 | 5.0 | 2.5 | 20 | SMC5.7 272J100J31 TR12 |
| 0.033 | K31 | 6.0 | 2.5 | 15 | SMC7.3 333J50K31 TR12 | 0.0033 | J31 | 5.0 | 2.5 | 20 | SMC5.7 332J100J31 TR12 |
| 0.039 | K31 | 6.0 | 2.5 | 15 | SMC7.3 393J50K31 TR12 | 0.0039 | J31 | 5.0 | 2.5 | 20 | SMC5.7 392J100J31 TR12 |
| 0.047 | K31 | 6.0 | 2.5 | 15 | SMC7.3 473J50K31 TR12 | 0.0047 | J31 | 5.0 | 2.5 | 20 | SMC5.7 472J100J31 TR12 |
| 0.056 | K31 | 6.0 | 2.5 | 15 | SMC7.3 563J50K31 TR12 | 0.0056 | J31 | 5.0 | 2.5 | 20 | SMC5.7 562J100J31 TR12 |
| 0.068 | K31 | 6.0 | 2.5 | 15 | SMC7.3 683J50K31 TR12 | 0.0068 | J31 | 5.0 | 2.5 | 20 | SMC5.7 682J100J31 TR12 |
| 0.082 | K33 | 6.0 | 3.0 | 6 | SMC7.3 823J50K33 TR12 | 0.0082 | J31 | 5.0 | 2.5 | 20 | SMC5.7 822J100J31 TR12 |
| 0.10 | K33 | 6.0 | 3.0 | 6 | SMC7.3 104J50K33 TR12 | 0.010 | J31 | 5.0 | 2.5 | 20 | SMC5.7 103J100J31 TR12 |
| 0.12 | K35 | 6.0 | 3.5 | 6 | SMC7.3 124J50K35 TR12 | 0.012 | J31 | 5.0 | 2.5 | 20 | SMC5.7 123J100J31 TR12 |
| 0.15 | K35 | 6.0 | 3.5 | 6 | SMC7.3 154J50K35 TR12 | 0.015 | J31 | 5.0 | 2.5 | 15 | SMC5.7 153J100J31 TR12 |
| 0.18 | K35 | 6.0 | 3.5 | 6 | SMC7.3 184J50K35 TR12 | | | | | | |
| 0.22 | K37 | 6.0 | 4.5 | 6 | SMC7.3 224J50K37 TR12 | | | | | | |

All following SMC capacitors, with manufacturing code WD (December 2008) and later, are capable to fulfil the recommended reflow soldering profile for lead free process presented at end of this document.

| Capacitance µF | Size code | Dimensions in mm ±0.2 | | Max dU/dt V/µs | Article code |
|-------------------|--------------|--------------------------|---|----------------------|--------------|
| | | B | H | | |

| Capacitance µF | Size code | Dimensions in mm ±0.2 | | Max dU/dt V/µs | Article code |
|-------------------|--------------|--------------------------|---|----------------------|--------------|
| | | B | H | | |

100 VDC/63 VAC

100 VDC/63 VAC

CHIP LENGTH 5.7 MM CODE 2220

CHIP LENGTH 16.5 MM CODE 6560

| | | | | | |
|-------|-----|-----|-----|----|------------------------|
| 0.018 | J33 | 5.0 | 3.0 | 15 | SMC5.7 183J100J33 TR12 |
| 0.022 | J33 | 5.0 | 3.0 | 15 | SMC5.7 223J100J33 TR12 |
| 0.027 | J35 | 5.0 | 4.0 | 15 | SMC5.7 273J100J35 TR12 |
| 0.033 | J35 | 5.0 | 4.0 | 15 | SMC5.7 333J100J35 TR12 |

| | | | | | |
|------|-----|------|-----|---|-------------------------|
| 0.68 | C31 | 15.0 | 7.0 | 3 | SMC16.5 684J100C31 TR24 |
| 0.82 | C31 | 15.0 | 7.0 | 3 | SMC16.5 824J100C31 TR24 |
| 1.0 | C31 | 15.0 | 7.0 | 3 | SMC16.5 105J100C31 TR24 |
| 1.2 | C31 | 15.0 | 7.0 | 3 | SMC16.5 125J100C31 TR24 |
| 1.5 | C31 | 15.0 | 7.0 | 3 | SMC16.5 155J100C31 TR24 |

CHIP LENGTH 7.3 MM CODE 2824

250 VDC/160 VAC

| | | | | | |
|--------|-----|-----|-----|----|------------------------|
| 0.0010 | K31 | 6.0 | 2.5 | 20 | SMC7.3 102J100K31 TR12 |
| 0.0012 | K31 | 6.0 | 2.5 | 20 | SMC7.3 122J100K31 TR12 |
| 0.0015 | K31 | 6.0 | 2.5 | 20 | SMC7.3 152J100K31 TR12 |
| 0.0018 | K31 | 6.0 | 2.5 | 20 | SMC7.3 182J100K31 TR12 |
| 0.0022 | K31 | 6.0 | 2.5 | 20 | SMC7.3 222J100K31 TR12 |
| 0.0027 | K31 | 6.0 | 2.5 | 20 | SMC7.3 272J100K31 TR12 |
| 0.0033 | K31 | 6.0 | 2.5 | 20 | SMC7.3 332J100K31 TR12 |
| 0.0039 | K31 | 6.0 | 2.5 | 20 | SMC7.3 392J100K31 TR12 |
| 0.0047 | K31 | 6.0 | 2.5 | 20 | SMC7.3 472J100K31 TR12 |
| 0.0056 | K31 | 6.0 | 2.5 | 20 | SMC7.3 562J100K31 TR12 |
| 0.0068 | K31 | 6.0 | 2.5 | 20 | SMC7.3 682J100K31 TR12 |
| 0.0082 | K31 | 6.0 | 2.5 | 20 | SMC7.3 822J100K31 TR12 |
| 0.010 | K31 | 6.0 | 2.5 | 20 | SMC7.3 103J100K31 TR12 |
| 0.012 | K31 | 6.0 | 2.5 | 20 | SMC7.3 123J100K31 TR12 |
| 0.015 | K31 | 6.0 | 2.5 | 20 | SMC7.3 153J100K31 TR12 |
| 0.018 | K31 | 6.0 | 2.5 | 20 | SMC7.3 183J100K31 TR12 |
| 0.022 | K31 | 6.0 | 2.5 | 20 | SMC7.3 223J100K31 TR12 |
| 0.027 | K33 | 6.0 | 3.0 | 15 | SMC7.3 273J100K33 TR12 |
| 0.033 | K33 | 6.0 | 3.0 | 15 | SMC7.3 333J100K33 TR12 |
| 0.039 | K35 | 6.0 | 3.5 | 15 | SMC7.3 393J100K35 TR12 |
| 0.047 | K35 | 6.0 | 3.5 | 15 | SMC7.3 473J100K35 TR12 |
| 0.056 | K37 | 6.0 | 4.5 | 15 | SMC7.3 563J100K37 TR12 |
| 0.068 | K37 | 6.0 | 4.5 | 15 | SMC7.3 683J100K37 TR12 |

CHIP LENGTH 7.3 MM CODE 2824

| | | | | | |
|--------|-----|-----|-----|----|------------------------|
| 0.0010 | K31 | 6.0 | 2.5 | 20 | SMC7.3 102J250K31 TR12 |
| 0.0012 | K31 | 6.0 | 2.5 | 20 | SMC7.3 122J250K31 TR12 |
| 0.0015 | K31 | 6.0 | 2.5 | 20 | SMC7.3 152J250K31 TR12 |
| 0.0018 | K31 | 6.0 | 2.5 | 20 | SMC7.3 182J250K31 TR12 |
| 0.0022 | K31 | 6.0 | 2.5 | 20 | SMC7.3 222J250K31 TR12 |
| 0.0027 | K31 | 6.0 | 2.5 | 20 | SMC7.3 272J250K31 TR12 |
| 0.0033 | K31 | 6.0 | 2.5 | 20 | SMC7.3 332J250K31 TR12 |
| 0.0039 | K31 | 6.0 | 2.5 | 20 | SMC7.3 392J250K31 TR12 |
| 0.0047 | K31 | 6.0 | 2.5 | 20 | SMC7.3 472J250K31 TR12 |
| 0.0056 | K31 | 6.0 | 2.5 | 20 | SMC7.3 562J250K31 TR12 |
| 0.0068 | K31 | 6.0 | 2.5 | 20 | SMC7.3 682J250K31 TR12 |
| 0.0082 | K31 | 6.0 | 2.5 | 20 | SMC7.3 822J250K31 TR12 |
| 0.010 | K33 | 6.0 | 3.0 | 20 | SMC7.3 103J250K33 TR12 |
| 0.012 | K33 | 6.0 | 3.0 | 20 | SMC7.3 123J250K33 TR12 |
| 0.015 | K33 | 6.0 | 3.0 | 20 | SMC7.3 153J250K33 TR12 |
| 0.018 | K35 | 6.0 | 3.5 | 20 | SMC7.3 183J250K35 TR12 |
| 0.022 | K35 | 6.0 | 3.5 | 20 | SMC7.3 223J250K35 TR12 |

CHIP LENGTH 10.2 MM CODE 4036

CHIP LENGTH 10.2 MM CODE 4036

| | | | | | |
|-------|-----|-----|-----|---|-------------------------|
| 0.010 | A31 | 9.1 | 5.5 | 6 | SMC10.2 103J100A31 TR16 |
| 0.012 | A31 | 9.1 | 5.5 | 6 | SMC10.2 123J100A31 TR16 |
| 0.015 | A31 | 9.1 | 5.5 | 6 | SMC10.2 153J100A31 TR16 |
| 0.018 | A31 | 9.1 | 5.5 | 6 | SMC10.2 183J100A31 TR16 |
| 0.022 | A31 | 9.1 | 5.5 | 6 | SMC10.2 223J100A31 TR16 |
| 0.027 | A31 | 9.1 | 5.5 | 6 | SMC10.2 273J100A31 TR16 |
| 0.033 | A31 | 9.1 | 5.5 | 6 | SMC10.2 333J100A31 TR16 |
| 0.039 | A31 | 9.1 | 5.5 | 6 | SMC10.2 393J100A31 TR16 |
| 0.047 | A31 | 9.1 | 5.5 | 6 | SMC10.2 473J100A31 TR16 |
| 0.056 | A31 | 9.1 | 5.5 | 6 | SMC10.2 563J100A31 TR16 |
| 0.068 | A31 | 9.1 | 5.5 | 6 | SMC10.2 683J100A31 TR16 |
| 0.082 | A31 | 9.1 | 5.5 | 6 | SMC10.2 823J100A31 TR16 |
| 0.10 | A31 | 9.1 | 5.5 | 6 | SMC10.2 104J100A31 TR16 |
| 0.12 | A31 | 9.1 | 5.5 | 6 | SMC10.2 124J100A31 TR16 |
| 0.15 | A31 | 9.1 | 5.5 | 6 | SMC10.2 154J100A31 TR16 |
| 0.18 | A31 | 9.1 | 5.5 | 6 | SMC10.2 184J100A31 TR16 |
| 0.22 | A31 | 9.1 | 5.5 | 6 | SMC10.2 224J100A31 TR16 |
| 0.27 | A31 | 9.1 | 5.5 | 6 | SMC10.2 274J100A31 TR16 |

| | | | | | |
|-------|-----|-----|-----|----|-------------------------|
| 0.010 | A31 | 9.1 | 5.5 | 10 | SMC10.2 103J250A31 TR16 |
| 0.012 | A31 | 9.1 | 5.5 | 10 | SMC10.2 123J250A31 TR16 |
| 0.015 | A31 | 9.1 | 5.5 | 10 | SMC10.2 153J250A31 TR16 |
| 0.018 | A31 | 9.1 | 5.5 | 10 | SMC10.2 183J250A31 TR16 |
| 0.022 | A31 | 9.1 | 5.5 | 10 | SMC10.2 223J250A31 TR16 |
| 0.027 | A31 | 9.1 | 5.5 | 10 | SMC10.2 273J250A31 TR16 |
| 0.033 | A31 | 9.1 | 5.5 | 10 | SMC10.2 333J250A31 TR16 |
| 0.039 | A31 | 9.1 | 5.5 | 10 | SMC10.2 393J250A31 TR16 |
| 0.047 | A31 | 9.1 | 5.5 | 10 | SMC10.2 473J250A31 TR16 |
| 0.056 | A31 | 9.1 | 5.5 | 10 | SMC10.2 563J250A31 TR16 |
| 0.068 | A31 | 9.1 | 5.5 | 10 | SMC10.2 683J250A31 TR16 |
| 0.082 | A31 | 9.1 | 5.5 | 10 | SMC10.2 823J250A31 TR16 |
| 0.10 | A31 | 9.1 | 5.5 | 10 | SMC10.2 104J250A31 TR16 |

CHIP LENGTH 12.7 MM CODE 5045

CHIP LENGTH 12.7 MM CODE 5045

| | | | | | |
|------|-----|------|-----|---|-------------------------|
| 0.33 | B31 | 11.5 | 6.5 | 5 | SMC12.7 334J100B31 TR24 |
| 0.39 | B31 | 11.5 | 6.5 | 5 | SMC12.7 394J100B31 TR24 |
| 0.47 | B31 | 11.5 | 6.5 | 5 | SMC12.7 474J100B31 TR24 |
| 0.56 | B31 | 11.5 | 6.5 | 5 | SMC12.7 564J100B31 TR24 |

| | | | | | |
|------|-----|------|-----|---|-------------------------|
| 0.12 | B31 | 11.5 | 6.5 | 8 | SMC12.7 124J250B31 TR24 |
| 0.15 | B31 | 11.5 | 6.5 | 8 | SMC12.7 154J250B31 TR24 |
| 0.18 | B31 | 11.5 | 6.5 | 8 | SMC12.7 184J250B31 TR24 |

250 VDC/160 VAC

CHIP LENGTH 16.5 MM CODE 6560

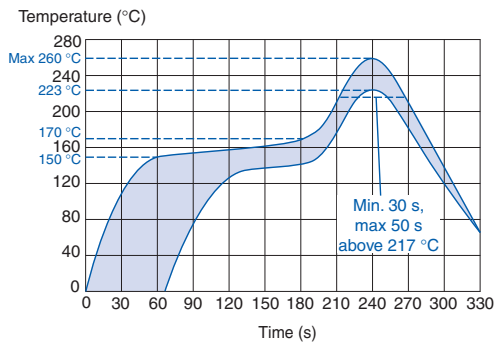
| | | | | | |
|------|-----|------|-----|---|-------------------------|
| 0.22 | C31 | 15.0 | 7.0 | 5 | SMC16.5 224J250C31 TR24 |
| 0.27 | C31 | 15.0 | 7.0 | 5 | SMC16.5 274J250C31 TR24 |
| 0.33 | C31 | 15.0 | 7.0 | 5 | SMC16.5 334J250C31 TR24 |
| 0.39 | C31 | 15.0 | 7.0 | 5 | SMC16.5 394J250C31 TR24 |
| 0.47 | C31 | 15.0 | 7.0 | 5 | SMC16.5 474J250C31 TR24 |

| Capacitance μF | Size code | Dimensions in mm ± 0.2 | | Max dU/dt V/ μs | Article code | Capacitance μF | Size code | Dimensions in mm ± 0.2 | | Max dU/dt V/ μs | Article code |
|--------------------------------------|-----------|-------------------------------|-----|----------------------------------|-------------------------|--------------------------------------|-----------|-------------------------------|-----|----------------------------------|-------------------------|
| | | B | H | | | | | B | H | | |
| 400 VDC/200 VAC | | | | | | 400 VDC/200 VAC | | | | | |
| CHIP LENGTH 7.3 MM CODE 2824 | | | | | | CHIP LENGTH 12.7 MM CODE 5045 | | | | | |
| 0.0010 | K31 | 6.0 | 2.5 | 25 | SMC7.3 102J400K31 TR12 | 0.047 | B31 | 11.5 | 6.5 | 10 | SMC12.7 473J400B31 TR24 |
| 0.0012 | K31 | 6.0 | 2.5 | 25 | SMC7.3 122J400K31 TR12 | 0.056 | B31 | 11.5 | 6.5 | 10 | SMC12.7 563J400B31 TR24 |
| 0.0015 | K31 | 6.0 | 2.5 | 25 | SMC7.3 152J400K31 TR12 | 0.068 | B31 | 11.5 | 6.5 | 10 | SMC12.7 683J400B31 TR24 |
| 0.0018 | K31 | 6.0 | 2.5 | 25 | SMC7.3 182J400K31 TR12 | 0.082 | B31 | 11.5 | 6.5 | 10 | SMC12.7 823J400B31 TR24 |
| 0.0022 | K31 | 6.0 | 2.5 | 25 | SMC7.3 222J400K31 TR12 | CHIP LENGTH 16.5 MM CODE 6560 | | | | | |
| 0.0027 | K31 | 6.0 | 2.5 | 25 | SMC7.3 272J400K31 TR12 | 0.10 | C31 | 15.0 | 7.0 | 8 | SMC16.5 104J400C31 TR24 |
| 0.0033 | K33 | 6.0 | 3.0 | 25 | SMC7.3 332J400K33 TR12 | 0.12 | C31 | 15.0 | 7.0 | 8 | SMC16.5 124J400C31 TR24 |
| 0.0039 | K33 | 6.0 | 3.0 | 25 | SMC7.3 392J400K33 TR12 | 0.15 | C31 | 15.0 | 7.0 | 8 | SMC16.5 154J400C31 TR24 |
| 0.0047 | K33 | 6.0 | 3.0 | 25 | SMC7.3 472J400K33 TR12 | 0.18 | C31 | 15.0 | 7.0 | 8 | SMC16.5 184J400C31 TR24 |
| 0.0056 | K35 | 6.0 | 3.5 | 25 | SMC7.3 562J400K35 TR12 | 0.22 | C31 | 15.0 | 7.0 | 8 | SMC16.5 224J400C31 TR24 |
| 0.0068 | K35 | 6.0 | 3.5 | 25 | SMC7.3 682J400K35 TR12 | | | | | | |
| 0.0082 | K37 | 6.0 | 4.5 | 25 | SMC7.3 822J400K37 TR12 | | | | | | |
| 0.010 | K37 | 6.0 | 4.5 | 25 | SMC7.3 103J400K37 TR12 | | | | | | |
| CHIP LENGTH 10.2 MM CODE 4036 | | | | | | | | | | | |
| 0.010 | A31 | 9.1 | 5.5 | 15 | SMC10.2 103J400A31 TR16 | | | | | | |
| 0.012 | A31 | 9.1 | 5.5 | 15 | SMC10.2 123J400A31 TR16 | | | | | | |
| 0.015 | A31 | 9.1 | 5.5 | 15 | SMC10.2 153J400A31 TR16 | | | | | | |
| 0.018 | A31 | 9.1 | 5.5 | 15 | SMC10.2 183J400A31 TR16 | | | | | | |
| 0.022 | A31 | 9.1 | 5.5 | 15 | SMC10.2 223J400A31 TR16 | | | | | | |
| 0.027 | A31 | 9.1 | 5.5 | 15 | SMC10.2 273J400A31 TR16 | | | | | | |
| 0.033 | A31 | 9.1 | 5.5 | 15 | SMC10.2 333J400A31 TR16 | | | | | | |
| 0.039 | A31 | 9.1 | 5.5 | 15 | SMC10.2 393J400A31 TR16 | | | | | | |

Reflow soldering on the top body surface of the component

Preheating temperature should be less than 170°C. The time above 217°C should be less than 50 s. The peak temperature must not exceed 260°C.

This profile is recommended for convection reflow ovens and IR reflow ovens. If vapour phase reflow oven is used, please consult Evox Rifa.



This recommended reflow soldering profile for lead free soldering is valid for those SMC products listed above, which have manufacturing code WD (December 2008) and later.

For marking of our SMD capacitors, please see page 18 in the Evox Rifa SMD and DIL Film Capacitors catalogue or www.evoxrifa.com/smd_catalog/wound_tech_caps/gen_info/wound_smd.pdf

Exceeding the manufacturer's process recommendations may harm the component and keep the manufacturer not liable for any defect caused by exceeding the recommendations.

According to international standards, the maximum temperature capability shall be measured on the top surface of a component. Any of the international standards do not define how the thermocouple should be fastened on the component. Our recommendation for attaching the thermocouple on the top surface of the component is glueing with high temperature resistant glue.

All updates for SMD capacitors reflow capability will be informed through www.evoxrifa.com.

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