

CKH/CKE

+105°C General Purpose Radial Lead Aluminum Electrolytic Capacitors



Features

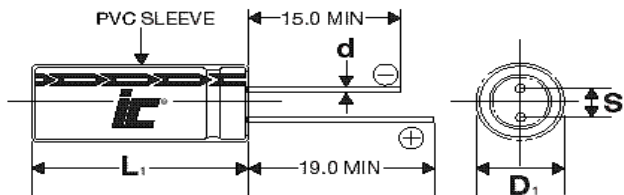
- Standard case sizes
- Multiple case sizes
- Lead free leads

Applications

- Bypass
- Coupling
- Filtering
- De-coupling

Specifications

| | | | | | | | | | | | | | | | | |
|---|-----------------------|---|-----|----------------------------------|------|------------------------------------|------|-------------------------|------------------------|-----|------|-----|-----|-----|-----|--|
| Operating Temperature Range | | -55°C to +105°C (6.3 to 100 WVDC), -40°C to +105°C (160 to 400 WVDC) -25°C to +85°C (450 WVDC) | | | | | | | | | | | | | | |
| Capacitance Tolerance | | +20% at 120 Hz, 20°C | | | | | | | | | | | | | | |
| Surge voltage | WVDC | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 | 200 | 250 | 350 | 400 | 450 | |
| | SVDC | 7.9 | 13 | 20 | 32 | 44 | 63 | 79 | 125 | 200 | 250 | 300 | 400 | 450 | 500 | |
| Dissipation Factor | WVDC | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 | 200 | 250 | 350 | 400 | 450 | |
| | Tan δ | .24 | .2 | .17 | .15 | .12 | .1 | .1 | .08 | .15 | .15 | .15 | .2 | .2 | .2 | |
| | | Add .02 for every 1000uF above 1000uF | | | | | | | | | | | | | | |
| Leakage current | | 6.3 to 100 WVDC | | | | | | | 160 to 450 WVDC | | | | | | | |
| | | 1 Minutes | | | | 2 Minutes | | | 2 Minutes | | | | | | | |
| | | .03CV or 4uA, Whichever is greater | | | | .01CV or 3uA, Whichever is greater | | | .03CV+40uA | | | | | | | |
| Low temperature stability Impedance ratio (120 Hz) | WVDC | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 | 200 | 250 | 350 | 400 | 450 | |
| | -25°C to +20°C | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 6 | 6 | 15 | |
| | -40°C to +20°C | 5 | 10 | 8 | 6 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 10 | 10 | - | |
| Load Life | | 2000 hours at 105°C with rated WVDC and ripple current applied | | | | | | | | | | | | | | |
| | | Capacitance change | | ≤20% of initial measured value | | | | | | | | | | | | |
| | | Dissipation factor | | ≤150% of maximum specified value | | | | | | | | | | | | |
| | | Leakage current | | ≥100% of maximum specified value | | | | | | | | | | | | |
| Shelf Life | | 1000 hours at 105°C with no voltage applied | | | | | | | | | | | | | | |
| | | Capacitance change | | ≤20% initial measured value | | | | | | | | | | | | |
| | | Dissipation factor | | ≤200% of maximum specified value | | | | | | | | | | | | |
| | | Leakage current | | ≥100% of maximum specified value | | | | | | | | | | | | |
| Ripple Current Multipliers | | | | Frequency (Hz) | | | | Temperature (°C) | | | | | | | | |
| | | | | 50 | 120 | 1k | 10k | +105 | +85 | +70 | +60 | | | | | |
| | | 6.3 to 25V | | .85 | 1.0 | 1.10 | 1.20 | 1.0 | 1.4 | 1.4 | 1.75 | | | | | |
| | | 35 to 100V | | .8 | 1.0 | 1.15 | 1.25 | 1.0 | 1.4 | 1.4 | 1.75 | | | | | |
| | | 160 to 250V | | .75 | 1.0 | 1.25 | 1.40 | 1.0 | 1.4 | 1.4 | 1.75 | | | | | |
| 350 to 450V | | .7 | 1.0 | 1.30 | 1.80 | 1.0 | 1.4 | 1.4 | 1.75 | | | | | | | |



| | | | | | | | |
|----------|-----|-----|-----|-----|------|-----|-----|
| D | 5 | 6.3 | 8 | 10 | 12.5 | 16 | 18 |
| S | 2.0 | 2.5 | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 |
| d | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 |

$L_1 = L + 1.5\text{mm Max.}$
 $D_1 = D + 0.5\text{mm Max.}$
 $S_1 = S + 0.5\text{mm}$



| Capacitance (µF) | VVDC | IC PART NUMBER | Maximum ESR (mΩ) 120 Hz, +20°C | Maximum RMS Ripple Current (mA) 120 Hz, +105°C | Dims DxDL (mm) |
|------------------|------|----------------|--------------------------------------|--|----------------|
| 0.1 | 50 | 104CKH050M | 1657.86 | 5 | 5x11 |
| 0.15 | 50 | 154CKH050M | 1105.24 | 5 | 5x11 |
| 0.22 | 50 | 224CKH050M | 753.575 | 7 | 5x11 |
| 0.33 | 50 | 334CKH050M | 502.38 | 10 | 5x11 |
| 0.47 | 100 | 474CKH100M | 282.19 | 12 | 5x11 |
| 0.47 | 250 | 474CKH250M | 529.106 | 15 | 6.3x11 |
| 0.68 | 50 | 684CKH050M | 243.804 | 10 | 5x11 |
| 1 | 50 | 105CKH050M | 165.79 | 17 | 5x11 |
| 1 | 100 | 105CKE100M | 132.63 | 19 | 5x11 |
| 1 | 250 | 105CKE250M | 248.68 | 21 | 6.3x11 |
| 1 | 350 | 105CKE350M | 331.57 | 21 | 6.3x11 |
| 1 | 400 | 105CKE400M | 331.57 | 21 | 8x11.5 |
| 1 | 450 | 105CKE450M | 331.57 | 22 | 10x12.5 |
| 1.5 | 50 | 155CKH050M | 110.52 | 15 | 5x11 |
| 2.2 | 50 | 225CKH050M | 75.358 | 25 | 5x11 |
| 2.2 | 100 | 225CKE100M | 60.286 | 28 | 5x11 |
| 2.2 | 250 | 225CKH250M | 113.036 | 31 | 6.3x11 |
| 2.2 | 350 | 225CKE350M | 150.71 | 21 | 6.3x11 |
| 2.2 | 400 | 225CKE400M | 150.71 | 26 | 8x11.5 |
| 2.2 | 450 | 225CKE450MJM | 150.71 | 20 | 8x11.5 |
| 2.2 | 450 | 225CKE450M | 150.71 | 31 | 10x12.5 |
| 3.3 | 50 | 335CKE050M | 50.238 | 31 | 5x11 |
| 3.3 | 100 | 335CKE100M | 40.19 | 34 | 5x11 |
| 3.3 | 200 | 335CKE200M | 75.358 | 34 | 6.3x11 |
| 3.3 | 250 | 335CKE250M | 75.358 | 44 | 8x11.5 |
| 3.3 | 250 | 335CKE250MGM | 75.358 | 28 | 6.3x11 |
| 3.3 | 350 | 335CKE350MJM | 100.477 | 30 | 8x11.5 |
| 3.3 | 400 | 335CKE400M | 100.477 | 41 | 10x12.5 |
| 3.3 | 400 | 335CKE400MJM | 100.477 | 34 | 8x11.5 |
| 3.3 | 450 | 335CKE450MLN | 100.477 | 28 | 10x13 |
| 3.3 | 450 | 335CKE450M | 100.477 | 50 | 12.5x20 |
| 4.7 | 100 | 475CKE100M | 28.219 | 41 | 5x11 |
| 4.7 | 160 | 475CKE160M | 52.911 | 38 | 6.3x11 |
| 4.7 | 200 | 475CKE200M | 52.911 | 35 | 6.3x11 |
| 4.7 | 250 | 475CKE250MGM | 52.911 | 35 | 6.3x11 |
| 4.7 | 250 | 475CKH250M | 52.911 | 60 | 10x12.5 |
| 4.7 | 250 | 475CKE250M | 52.911 | 50 | 8x11.5 |
| 4.7 | 350 | 475CKE350M | 70.547 | 47 | 10x12.5 |
| 4.7 | 350 | 475CKE350MJM | 70.547 | 39 | 8x11.5 |
| 4.7 | 400 | 475CKE400M | 70.547 | 55 | 10x16 |
| 4.7 | 400 | 475CKE400MLN | 70.547 | 42 | 10x12.5 |
| 4.7 | 450 | 475CKH450M | 70.547 | 60 | 12.5x20 |
| 4.7 | 450 | 475CKE450M | 70.547 | 43 | 10x20 |
| 4.7 | 450 | 475CKE450MLN | 70.547 | 32 | 10x12.5 |
| 6.8 | 50 | 685CKH050M | 24.381 | 40 | 5x11 |
| 6.8 | 63 | 685CKH063M | 24.381 | 42 | 5x11 |
| 6.8 | 100 | 685CKH100M | 19.504 | 52 | 6.3x11 |
| 6.8 | 250 | 685CKH250M | 36.571 | 65 | 10x16 |
| 10 | 50 | 106CKH050M | 16.579 | 55 | 5x11 |
| 10 | 63 | 106CKE063M | 16.579 | 55 | 5x11 |
| 10 | 100 | 106CKH100M | 13.263 | 65 | 6.3x11 |
| 10 | 100 | 106CKE100MEM | 13.263 | 50 | 5x11 |
| 10 | 160 | 106CKE160M | 24.868 | 65 | 8x11.5 |
| 10 | 200 | 106CKE200M | 24.868 | 75 | 10x12.5 |
| 10 | 200 | 106CKE200MJM | 24.868 | 57 | 8x11.5 |
| 10 | 250 | 106CKE250MLN | 24.868 | 71 | 10x12.5 |
| 10 | 250 | 106CKH250M | 24.868 | 90 | 10x16 |
| 10 | 350 | 106CKE350M | 33.157 | 85 | 10x20 |

| Capacitance (µF) | VVDC | IC PART NUMBER | Maximum ESR (mΩ) 120 Hz, +20°C | Maximum RMS Ripple Current (mA) 120 Hz, +105°C | Dims DxDL (mm) |
|------------------|------|----------------|--------------------------------------|--|----------------|
| 10 | 350 | 106CKE350MLQ | 33.157 | 64 | 10x16 |
| 10 | 400 | 106CKE400M | 33.157 | 73 | 10x20 |
| 10 | 400 | 106CKE400MLQ | 33.157 | 64 | 10x16 |
| 10 | 450 | 106CKE450MLU | 33.157 | 27 | 10x21 |
| 10 | 450 | 106CKE450M | 33.157 | 65 | 12.5x20 |
| 15 | 50 | 156CKH050M | 11.052 | 58 | 5x11 |
| 15 | 63 | 156CKH063M | 11.052 | 65 | 6.3x11 |
| 15 | 100 | 156CKH100M | 8.842 | 80 | 8x11.5 |
| 15 | 160 | 156CKH160M | 11.052 | 80 | 10x16 |
| 15 | 250 | 156CKH250M | 11.052 | 90 | 10x20 |
| 22 | 50 | 226CKH050M | 7.536 | 80 | 5x11 |
| 22 | 63 | 226CKH063M | 7.536 | 85 | 6.3x11 |
| 22 | 63 | 226CKE063M | 7.536 | 80 | 5x11 |
| 22 | 100 | 226CKH100M | 6.029 | 110 | 8x11.5 |
| 22 | 100 | 226CKE100M | 6.029 | 100 | 6.3x11 |
| 22 | 160 | 226CKE160MLN | 11.304 | 92 | 10x12.5 |
| 22 | 160 | 226CKE160M | 11.304 | 110 | 10x16 |
| 22 | 200 | 226CKE200MLQ | 11.304 | 105 | 10x16 |
| 22 | 200 | 226CKH200M | 11.3036 | 130 | 10x20 |
| 22 | 250 | 226CKE250MLU | 11.304 | 105 | 10x20 |
| 22 | 250 | 226CKE250M | 11.304 | 160 | 12.5x20 |
| 22 | 350 | 226CKE350MNU | 15.072 | 105 | 12.5x20 |
| 22 | 400 | 226CKE400M | 15.072 | 150 | 12.5x25 |
| 22 | 450 | 226CKE450M | 15.072 | 130 | 16x25 |
| 22 | 450 | 226CKH450M | 15.071 | 160 | 16x31.5 |
| 22 | 450 | 226CKE450MNV | 15.0715 | 100 | 13x26 |
| 33 | 50 | 336CKE050M | 5.024 | 95 | 5x11 |
| 33 | 63 | 336CKE063M | 5.024 | 110 | 6.3x11 |
| 33 | 100 | 336CKE100M | 4.019 | 140 | 8x11.5 |
| 33 | 100 | 336CKH100M | 4.019 | 140 | 10x12.5 |
| 33 | 160 | 336CKE160M | 7.536 | 150 | 10x20 |
| 33 | 160 | 336CKE160MLQ | 7.536 | 125 | 10x16 |
| 33 | 200 | 336CKE200MLU | 7.536 | 140 | 10x20 |
| 33 | 250 | 336CKE250M | 7.536 | 190 | 12.5x20 |
| 33 | 350 | 336CKE350MNV | 10.048 | 170 | 12.5x25 |
| 33 | 400 | 336CKE400M | 10.048 | 160 | 16x25 |
| 33 | 400 | 336CKH400M | 10.048 | 210 | 16x31.5 |
| 33 | 450 | 336CKE450MQV | 10.048 | 120 | 16x25 |
| 33 | 450 | 336CKE450M | 10.048 | 230 | 18x35.5 |
| 47 | 25 | 476CKH025M | 5.291 | 95 | 5x11 |
| 47 | 35 | 476CKE035M | 4.233 | 110 | 5x11 |
| 47 | 50 | 476CKE050M | 3.527 | 130 | 6.3x11 |
| 47 | 63 | 476CKE063M | 3.527 | 130 | 6.3x11 |
| 47 | 63 | 476CKH063M | 3.527 | 135 | 8x11.5 |
| 47 | 100 | 476CKE100MJM | 2.822 | 140 | 8x11.5 |
| 47 | 100 | 476CKH100M | 2.822 | 190 | 10x16 |
| 47 | 100 | 476CKE100M | 2.822 | 180 | 10x12.5 |
| 47 | 160 | 476CKE160MLU | 5.291 | 150 | 10x20 |
| 47 | 160 | 476CKE160M | 5.291 | 190 | 12.5x20 |
| 47 | 200 | 476CKE200M | 5.291 | 210 | 12.5x20 |
| 47 | 250 | 476CKE250MNU | 5.291 | 190 | 13x21 |
| 47 | 250 | 476CKE250M | 5.291 | 250 | 12.5x25 |
| 47 | 350 | 476CKH350M | 7.055 | 250 | 16x35.5 |
| 47 | 350 | 476CKE350M | 7.055 | 190 | 16x25 |
| 47 | 400 | 476CKE400M | 7.055 | 210 | 16x31.5 |
| 47 | 400 | 476CKE400MQV | 7.055 | 200 | 16x25 |
| 47 | 450 | 476CKE450MQW | 7.055 | 155 | 16x31.5 |
| 68 | 16 | 686CKH016M | 4.145 | 95 | 5x11 |

| Capacitance (µF) | WVDC | IC PART NUMBER | Maximum ESR (mΩ) 120 Hz, +20°C | Maximum RMS Ripple Current (mA) 120 Hz, +105°C | Dims DxDL (mm) |
|------------------|------|----------------|--------------------------------------|--|----------------|
| 68 | 25 | 686CKH025M | 3.657 | 105 | 6.3x11 |
| 68 | 50 | 686CKH050M | 2.438 | 165 | 8x11.5 |
| 68 | 63 | 686CKH063M | 2.438 | 190 | 10x12.5 |
| 68 | 100 | 686CKH100M | 1.95 | 255 | 10x16 |
| 68 | 200 | 686CKH200M | 3.657 | 235 | 16x25 |
| 68 | 250 | 686CKH250M | 3.657 | 255 | 16x31.5 |
| 100 | 16 | 107CKE016M | 2.818 | 130 | 5x11 |
| 100 | 25 | 107CKE025MEM | 2.487 | 125 | 5x11 |
| 100 | 35 | 107CKE035M | 1.989 | 170 | 6.3x11 |
| 100 | 50 | 107CKH050M | 1.658 | 220 | 8x11.5 |
| 100 | 63 | 107CKH063M | 1.658 | 240 | 10x12.5 |
| 100 | 63 | 107CKE063MJM | 1.658 | 200 | 8x11.5 |
| 100 | 100 | 107CKE100MLQ | 1.326 | 240 | 10x16 |
| 100 | 100 | 107CKE100M | 1.326 | 320 | 10x20 |
| 100 | 160 | 107CKE160M | 2.487 | 310 | 12.5x25 |
| 100 | 200 | 107CKE200M | 2.487 | 340 | 16x25 |
| 100 | 250 | 107CKE250M | 2.487 | 410 | 16x31.5 |
| 100 | 250 | 107CKE250MQV | 2.487 | 310 | 16x25 |
| 100 | 350 | 107CKE350M | 3.316 | 410 | 18x40 |
| 100 | 350 | 107CKE350MRY | 3.316 | 370 | 18x35.5 |
| 100 | 400 | 107CKE400M | 3.316 | 310 | 18x35.5 |
| 150 | 10 | 157CKH010M | 2.211 | 125 | 6.3x11 |
| 150 | 25 | 157CKH025M | 1.658 | 180 | 8x11.5 |
| 150 | 35 | 157CKH035M | 1.326 | 230 | 10x12.5 |
| 150 | 50 | 157CKH050M | 1.105 | 260 | 10x16 |
| 150 | 63 | 157CKH063M | 1.105 | 315 | 10x20 |
| 150 | 100 | 157CKH100M | 0.884 | 410 | 12.5x20 |
| 150 | 160 | 157CKH160M | 1.658 | 330 | 16x31.5 |
| 150 | 200 | 157CKH200M | 1.658 | 350 | 16x35.5 |
| 220 | 10 | 227CKE010M | 1.5072 | 180 | 5x11 |
| 220 | 16 | 227CKE016M | 1.2811 | 220 | 6.3x11 |
| 220 | 25 | 227CKE025MGM | 1.13 | 200 | 6.3x11 |
| 220 | 35 | 227CKE035M | 0.904 | 300 | 8x11.5 |
| 220 | 50 | 227CKE050M | 0.754 | 350 | 10x12.5 |
| 220 | 50 | 227CKH050M | 0.7536 | 360 | 10x16 |
| 220 | 63 | 227CKH063M | 0.7536 | 400 | 10x20 |
| 220 | 63 | 227CKE063M | 0.754 | 390 | 10x16 |
| 220 | 100 | 227CKE100M | 0.603 | 560 | 12.5x25 |
| 220 | 100 | 227CKH100M | 0.603 | 540 | 16x25 |
| 220 | 100 | 227CKE100MNU | 0.603 | 390 | 12.5x20 |
| 220 | 160 | 227CKE160MQW | 1.13 | 410 | 16x31.5 |
| 220 | 200 | 227CKE200M | 1.13 | 500 | 16x35.5 |
| 220 | 250 | 227CKE250M | 1.13 | 485 | 18x35.5 |
| 330 | 10 | 337CKE010M | 1.005 | 250 | 6.3x11 |
| 330 | 16 | 337CKE016MGM | 0.854 | 225 | 6.3x11 |
| 330 | 25 | 337CKE025M | 0.754 | 330 | 8x11.5 |
| 330 | 35 | 337CKE035M | 0.603 | 390 | 10x12.5 |
| 330 | 50 | 337CKH050M | 0.502 | 490 | 10x20 |
| 330 | 50 | 337CKE050M | 0.502 | 480 | 10x16 |
| 330 | 63 | 337CKE063M | 0.502 | 520 | 10x20 |
| 330 | 63 | 337CKH063M | 0.502 | 530 | 12.5x20 |
| 330 | 100 | 337CKH100M | 0.402 | 660 | 16x25 |
| 330 | 100 | 337CKE100M | 0.402 | 690 | 12.5x25 |
| 330 | 160 | 337CKE160M | 0.754 | 550 | 18x35.5 |
| 330 | 200 | 337CKE200M | 0.754 | 675 | 18x40 |
| 470 | 10 | 477CKE010M | 0.7055 | 290 | 6.3x11 |
| 470 | 16 | 477CKE016M | 0.5997 | 370 | 8x11.5 |
| 470 | 16 | 477CKH016M | 0.599 | 370 | 10x12.5 |

| Capacitance (µF) | WVDC | IC PART NUMBER | Maximum ESR (mΩ) 120 Hz, +20°C | Maximum RMS Ripple Current (mA) 120 Hz, +105°C | Dims DxDL (mm) |
|------------------|------|----------------|--------------------------------------|--|----------------|
| 470 | 25 | 477CKE025M | 0.529 | 420 | 10x12.5 |
| 470 | 35 | 477CKE035M | 0.423 | 520 | 10x16 |
| 470 | 50 | 477CKE050M | 0.353 | 630 | 10x20 |
| 470 | 50 | 477CKH050M | 0.353 | 630 | 12.5x20 |
| 470 | 63 | 477CKH063M | 0.353 | 690 | 12.5x25 |
| 470 | 63 | 477CKE063M | 0.353 | 670 | 12.5x20 |
| 470 | 100 | 477CKE100M | 0.282 | 830 | 16x25 |
| 470 | 100 | 477CKH100M | 0.282 | 870 | 16x31.5 |
| 680 | 6.3 | 687CKH6R3M | 0.585 | 375 | 10x12.5 |
| 680 | 16 | 687CKH016M | 0.415 | 490 | 10x16 |
| 680 | 35 | 687CKH035M | 0.293 | 695 | 12.5x20 |
| 680 | 50 | 687CKH050M | 0.244 | 825 | 12.5x25 |
| 680 | 63 | 687CKH063M | 0.244 | 925 | 16x25 |
| 1000 | 6.3 | 108CKE6R3M | 0.398 | 460 | 8x11.5 |
| 1000 | 10 | 108CKE010M | 0.332 | 530 | 10x12.5 |
| 1000 | 16 | 108CKE016M | 0.282 | 630 | 10x16 |
| 1000 | 16 | 108CKE016MLN | 0.282 | 500 | 10x12.5 |
| 1000 | 16 | 108CKH016M | 0.282 | 660 | 10x20 |
| 1000 | 25 | 108CKE025M | 0.249 | 740 | 10x20 |
| 1000 | 25 | 108CKE025MLQ | 0.249 | 610 | 10x16 |
| 1000 | 35 | 108CKH035M | 0.199 | 890 | 12.5x20 |
| 1000 | 50 | 108CKH050M | 0.166 | 1010 | 16x25 |
| 1000 | 50 | 108CKE050M | 0.166 | 1070 | 12.5x25 |
| 1000 | 63 | 108CKE063M | 0.166 | 1080 | 16x25 |
| 1000 | 63 | 108CKH063M | 0.166 | 1120 | 16x31.5 |
| 1000 | 100 | 108CKE100M | 0.133 | 1580 | 18x40 |
| 1000 | 100 | 108CKE100MRY | 0.133 | 1000 | 18x35.5 |
| 1500 | 6.3 | 158CKH6R3M | 0.287 | 585 | 10x20 |
| 1500 | 16 | 158CKH016M | 0.21 | 800 | 12.5x20 |
| 1500 | 25 | 158CKH025M | 0.188 | 905 | 12.5x25 |
| 1500 | 35 | 158CKH035M | 0.1547 | 1140 | 16x25 |
| 1500 | 50 | 158CKH050M | 0.133 | 1250 | 18x31.5 |
| 2200 | 6.3 | 228CKE6R3M | 0.211 | 760 | 10x16 |
| 2200 | 10 | 228CKE010MLQ | 0.1809 | 705 | 10x16 |
| 2200 | 10 | 228CKE010M | 0.1809 | 910 | 10x20 |
| 2200 | 16 | 228CKE016M | 0.1583 | 1050 | 12.5x20 |
| 2200 | 16 | 228CKE016MLU | 0.1583 | 710 | 10x20 |
| 2200 | 16 | 228CKH016M | 0.158 | 1090 | 12.5x25 |
| 2200 | 25 | 228CKE025M | 0.1432 | 1220 | 12.5x25 |
| 2200 | 25 | 228CKH025M | 0.143 | 1210 | 16x25 |
| 2200 | 35 | 228CKH035M | 0.121 | 1440 | 16x31.5 |
| 2200 | 35 | 228CKE035M | 0.1206 | 1350 | 16x25 |
| 2200 | 50 | 228CKE050MQW | 0.1055 | 1410 | 16x31.5 |
| 2200 | 50 | 228CKH050M | 0.106 | 1700 | 18x35.5 |
| 2200 | 50 | 228CKE050M | 0.1055 | 1700 | 16x35.5 |
| 2200 | 63 | 228CKE063M | 0.1055 | 1650 | 18x35.5 |
| 3300 | 6.3 | 338CKE6R3M | 0.1507 | 990 | 10x20 |
| 3300 | 10 | 338CKE010M | 0.131 | 1140 | 12.5x20 |
| 3300 | 16 | 338CKE016M | 0.116 | 1340 | 12.5x25 |
| 3300 | 16 | 338CKH016M | 0.116 | 1270 | 16x25 |
| 3300 | 25 | 338CKH025M | 0.106 | 1530 | 16x31.5 |
| 3300 | 25 | 338CKE025M | 0.106 | 1420 | 16x25 |
| 3300 | 35 | 338CKE035M | 0.0905 | 1810 | 16x35.5 |
| 3300 | 35 | 338CKE035MQW | 0.0905 | 1500 | 16x31.5 |
| 3300 | 50 | 338CKE050M | 0.0804 | 2060 | 18x35.5 |
| 4700 | 10 | 478CKE010M | 0.0847 | 1420 | 12.5x25 |
| 4700 | 10 | 478CKH010M | 0.0988 | 1350 | 16x25 |
| 4700 | 16 | 478CKH016M | 0.0882 | 1560 | 16x31.5 |

CKH_CKE

+105°C, Extended life 2000
hour

| Capacitance (µF) | WVDC | IC PART NUMBER | Maximum ESR (mΩ) 120 Hz, +20°C | Maximum RMS Ripple Current (mA) 120 Hz, +105°C | Dims DxL (mm) |
|------------------|------|------------------------------|--------------------------------------|--|---------------|
| 4700 | 16 | 478CKE016M | 0.0741 | 1510 | 16x25 |
| 4700 | 25 | 478CKE025M | 0.081 | 1740 | 16x31.5 |
| 4700 | 25 | 478CKH025M | 0.081 | 1780 | 18x31.5 |
| 4700 | 25 | 478CKE025MQV | 0.081 | 1570 | 16x25 |
| 4700 | 35 | 478CKE035M | 0.0706 | 2110 | 18x35.5 |
| 4700 | 35 | 478CKE035MQY | 0.0706 | 1780 | 16x35.5 |
| 6800 | 6.3 | 688CKE6R3M | 0.0585 | 1500 | 12.5x25 |
| 6800 | 10 | 688CKE010M | 0.0488 | 1600 | 16x25 |
| 6800 | 16 | 688CKE016M | 0.071 | 1860 | 16x31.5 |
| 6800 | 16 | 688CKE016MQV | 0.071 | 1600 | 16x25 |
| 6800 | 25 | 688CKE025M | 0.0658 | 2170 | 18x35.5 |
| 6800 | 25 | 688CKE025MQY | 0.0658 | 1850 | 16x35.5 |
| 6800 | 35 | 688CKE035M | 0.0585 | 2000 | 18x40 |
| 10000 | 6.3 | 109CKH6R3M | 0.07 | 1730 | 16x31.5 |

| Capacitance (µF) | WVDC | IC PART NUMBER | Maximum ESR (mΩ) 120 Hz, +20°C | Maximum RMS Ripple Current (mA) 120 Hz, +105°C | Dims DxL (mm) |
|------------------|------|------------------------------|--------------------------------------|--|---------------|
| 10000 | 6.3 | 109CKE6R3M | 0.0398 | 1660 | 16x25 |
| 10000 | 10 | 109CKE010MLQ | 0.063 | 1820 | 16x31.5 |
| 10000 | 10 | 109CKH010M | 0.063 | 2030 | 18x35.5 |
| 10000 | 10 | 109CKE010M | 0.063 | 2040 | 16x35.5 |
| 10000 | 16 | 109CKE016M | 0.058 | 1960 | 18x35.5 |
| 10000 | 16 | 109CKE016MQY | 0.058 | 1930 | 16x35.5 |
| 10000 | 25 | 109CKE025M | 0.0547 | 2000 | 18x40 |
| 15000 | 6.3 | 159CKE6R3M | 0.0575 | 2140 | 16x35.5 |
| 15000 | 6.3 | 159CKE6R3MQW | 0.0575 | 1820 | 16x31.5 |
| 15000 | 10 | 159CKE010M | 0.0531 | 2370 | 18x35.5 |
| 15000 | 10 | 159CKE010MQY | 0.0531 | 2050 | 16x35.5 |
| 15000 | 16 | 159CKE016M | 0.0497 | 2210 | 18x40 |
| 22000 | 6.3 | 229CKE6R3MRY | 0.0497 | 2280 | 18x35.5 |
| 22000 | 10 | 229CKE010M | 0.0467 | 2420 | 18x40 |

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «**JONHON**», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «**FORSTAR**».



JONHON

«**JONHON**» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«**FORSTAR**» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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