# DCH / DCS *NEW - In Progress*

MKP • box with multiple radial terminals • high energy density • DC-Link • medium-high current • medium-high frequency • not suitable for AC applications • DCS: high safety version


**Main applications**
DC capacitor for DC-Link applications in inverters, converters, UPS, battery chargers and welding equipments. Not suitable for AC applications.

**Dielectric**
Polypropylene

**Electrodes**
Vacuum deposited metal layers

**Coating**
Solvent resistant plastic case with resin sealing (UL 94 V-0). Flame retardant execution

**Construction**
DCH: extended metallized film (refer to General Technical Information)
DCS: extended metallized film with segmented pattern (refer to General Technical Information)

**Terminals**
Tinned copper wire (lead free). 2, 4 and 6 terminals execution

**Degree of protection**
IP00

**Installation**
Whatever position assuring correct heat dissipation. Arrangement of many components with box walls in contact not admitted; minimum distance between side by side elements ≥ 1/8 of the box thickness (B size)

**Reference standard**
IEC 61071, IEC 60068, RoHS compliant

**Climatic category**
40/85/56 (IEC 60068/1)
Please refer also to paragraph C10 (humid ambient) of the General Technical Information

**Operating temperature range (case)**
-40°...+85°C (+100°C observing voltage and current de-rating)

**Max. permissible ambient temperature**
+70°C (+85°C observing voltage and current de-rating); at Tamb > +95°C superimposed Irms not admitted (Irms= 0 at Tamb> +95°C)

**Nominal Capacitance (Cn) μF**
DCH: 0,68 μF to 175 μF; DCS: 1,8 μF to 150 μF. Refer to article table

**Capacitance tolerance (at 1kHz)**
±10% (code=K), ±5% (code=J). Lower tolerances upon request

**Capacitance temperature coefficient**
Refer to General Technical Information

**Long term stability (at 1kHz)**
Capacitance variation ≤ ±1% after a period of 2 years at standard environmental conditions

**Rated voltage (Ur) (Vdc) at 85°C**
470, 600, 700, 800, 900, 1030, 1100, 1300, 1500 Vdc

**Temperature de-rated voltage and current**
For operating temperature (case)> +85°C, Ur must be decreased 1.5% for every °C exceeding +85°C. For current de-rating please also refer to paragraph B14 of the General Technical Information, and to the ΔT/Tamb data in function of the applied Irms listed in the article table

**Max. admissible voltage at T = +70°C, case (continuous operation)**
DCH: 500, 640, 750, 855, 965, 1100, 1175, 1380, 1585 Vdc
DCS: not applicable, please refer to Ur

**Max. applicable peak to peak ripple voltage (Upp)**
0,2 x Ur (respecting current ratings)

**Max. repetitive peak voltage (Upkr)**
1,1 x Ur (30% of on-load duration/ day); 1,15 x Ur (30 minutes max./ day); 1,2 x Ur (5 minutes max./ day); 1,3 x Ur (1 minutes max./ day); 1,5 x Ur (30 ms/ day permitted 1000 times during the total life of the capacitor)

**Self inductance**
≤ 1nH/mm of capacitor pitch

**Maximum pulse rise time V/μs**
Refer to article table

**Maximum peak current (Ipeak)**
Refer to article table

**RMS current (Irms)**
Refer to article table. No superimposed Irms must be applied at Tamb > +95°C (at Tamb > +95°C Irms must be = 0)

**Dissipation factor (DF) at 1kHz, max.**

| Measured at 25 ±5°C, 1 kHz | DCH: tgδ x10$^{-4}$ | DCS: tgδ x10$^{-4}$ |
|---|---|---|
| Cn ≤ 4 μF | 8 | 10 |
| 4 μF < Cn ≤ 10 μF | 10 | 12 |
| 10 μF < Cn ≤ 20 μF | 13 | 16 |
| 20 μF < Cn ≤ 40 μF | 17 | 21 |
| 40 μF < Cn ≤ 68 μF | 22 | 27 |
| 68 μF < Cn ≤ 90 μF | 29 | 35 |
| 90 μF < Cn ≤ 125 μF | 36 | 43 |
| Cn > 125 μF | 45 | 55 |

**Dissipation factor (DF) at 10kHz, max.**
For tgδ x10$^{-4}$, measured at 25 ±5°C, 10 kHz, refer to article table

**Typical Equivalent Series Resistance (ESR) at the reference frequency**
Refer to article table

**Insulation resistance ($R_{INS}$)**
≥ 3000s (10000s typical) when measured between terminals, at 25±°C, after 1 minute of electrification at 100Vdc

**Test voltage between terminals (Ut)**
1,5xUr (DC) applied for 10s at 25±5°C

**Test voltage between terminals and case (Utc)**
3kV 50÷60Hz applied for 60s at 25 ±5°C

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## Biased damp heat tests

***a) AEC Q-200 - cockpit***

**Test conditions:**

Rated Ur

Temperature= +40±2°C

Relative humidity=93±2%

Test duration= 1000h

***b) robustness under high humidity, Grade II***

**Test conditions:**

Rated Ur

Temperature= +40±2°C

Relative humidity=93±2%

Test duration= 1344h (56 days)

***c) high robustness under high humidity, Grade III***

**Test conditions:**

Rated Ur

Temperature= +60±2°C

Relative humidity=93±2%

Test duration= 1344h (56 days)

**Performance:**

Capacitance change ≤ ±10%

DF change ≤ 2 x initial limit at 10kHz

$R_{INS}$≥ 50% of initial limit value

Box distortion ≤ 1/16 of the nominal box thickness (B size) or ≤ 1mm, whichever is the highest (ref. GTI Chapter)

## Life expectancy

≥ 100000 hours at Ur and hot spot T(case) = +85°C: reference for expected life calculations at different operating conditions. Refer to GTI Chapter, Paragraphs B35

## Failure quota

300/$10^9$ component hours. Refer to GTI Chapter, Paragraphs B34

## Typical capacitance change versus operating time

DCH: -5% after 100000 hours at Ur

DCS: -10% after 100000 hours at Ur

## Resistance to soldering heat test

**Test conditions:**

Solder bath temperature= +260±5°C

Dipping time (with heat screen)= 10±1s

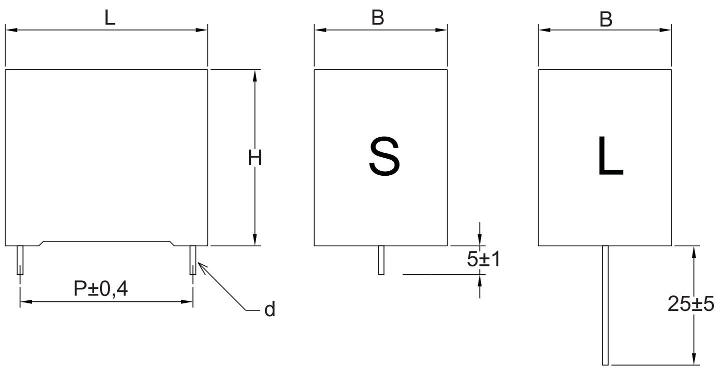
**Performance:**

Capacitance change ≤ ±1%

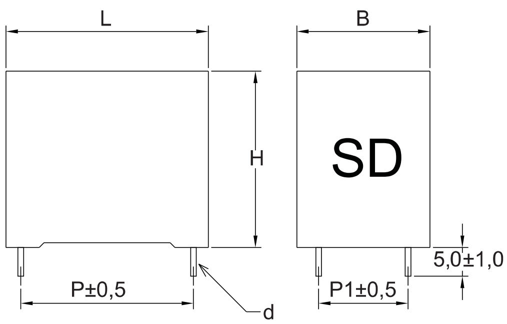
DF change ≤ 0.0010 at 1kHz

$R_{INS}$≥ 50% of initial limit value

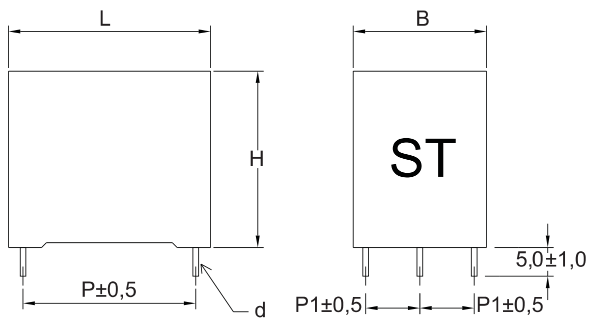
2 terminals execution




4 terminals execution




6 terminals execution



# DCH / DCS *NEW - In Progress*

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**DCH030…: Ur = 470Vdc at +85°C (case); max. admissible voltage at +70°C (case) = 500Vdc**
**(45x65x42,5mm box in progress)**

| Cn | Dimensions (mm) | | | | | | du/dt | Ipeak | Irms max.[1] | | | ESR[2] | DF MAX. | ICEL CODE[3] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| µF | B | H | L | d | P | P1 | V/µs | A | A (ΔT=+15°C) | A (ΔT=+10°C) | A (ΔT=+5°C) | mΩ | x 10⁻⁴ @10kHz | - |
| 175 | 45 | 65 | 57,5 | 1,2 | 52,5 | 10,2 | 8 | 1400 | 32,5 | 26,5 | 18,5 | 2,2 | 387 | DCH0306175*RST [4] |
| 175 | 45 | 65 | 57,5 | 1,2 | 52,5 | 20,3 | 8 | 1400 | 27 | 25,5 | 18 | 2,3 | 404 | DCH0306175*RSD [4] |
| 150 | 45 | 65 | 57,5 | 1,2 | 52,5 | 10,2 | 8 | 1200 | 30 | 24 | 17 | 2,5 | 377 | DCH0306150*RST [4] |
| 150 | 45 | 65 | 57,5 | 1,2 | 52,5 | 20,3 | 8 | 1200 | 27 | 23 | 16,5 | 2,6 | 392 | DCH0306150*RSD [4] |
| 125 | 38 | 57,5 | 57,5 | 1,2 | 52,5 | 20,3 | 8 | 1000 | 24,5 | 20 | 14 | 2,9 | 364 | DCH0306125*RSD |
| 100 | 38 | 57,5 | 57,5 | 1,2 | 52,5 | 20,3 | 8 | 800 | 23 | 18,5 | 13 | 3,3 | 332 | DCH0306100*RSD |
| 90 | 35 | 50 | 57,5 | 1,2 | 52,5 | 20,3 | 8 | 720 | 21 | 17 | 12 | 3,5 | 317 | DCH0305900*RSD |
| 90 | 35 | 50 | 57,5 | 1,2 | 52,5 | - | 8 | 720 | 14 | 14 | 11 | 4,2 | 380 | DCH0305900*R# |
| 80 | 35 | 50 | 57,5 | 1,2 | 52,5 | 20,3 | 8 | 640 | 20 | 16 | 11 | 3,8 | 305 | DCH0305800*RSD |
| 80 | 35 | 50 | 57,5 | 1,2 | 52,5 | - | 8 | 640 | 14 | 14 | 10,5 | 4,5 | 362 | DCH0305800*R# |
| 75 | 35 | 50 | 57,5 | 1,2 | 52,5 | 20,3 | 8 | 600 | 19,5 | 15,5 | 10,5 | 3,9 | 294 | DCH0305750*RSD |
| 75 | 35 | 50 | 57,5 | 1,2 | 52,5 | - | 8 | 600 | 14 | 14 | 10 | 4,6 | 347 | DCH0305750*R# |
| 68 | 30 | 45 | 57,5 | 1,2 | 52,5 | 20,3 | 8 | 544 | 17,5 | 14,5 | 10 | 4,2 | 287 | DCH0305680*RSD |
| 68 | 30 | 45 | 57,5 | 1,2 | 52,5 | - | 8 | 544 | 14 | 14 | 9 | 4,9 | 335 | DCH0305680*R# |
| 60 | 30 | 45 | 57,5 | 1,2 | 52,5 | 20,3 | 8 | 480 | 16,5 | 13,5 | 9,5 | 4,5 | 271 | DCH0305600*RSD |
| 60 | 30 | 45 | 57,5 | 1,2 | 52,5 | - | 8 | 480 | 14 | 12,5 | 9 | 5,2 | 313 | DCH0305600*R# |
| 60 | 35 | 50 | 42 | 1,2 | 37,5 | 20,3 | 12 | 720 | 21 | 17 | 12 | 3,6 | 217 | DCH0305600*JSD |
| 60 | 35 | 50 | 42 | 1,2 | 37,5 | - | 12 | 720 | 14 | 14 | 11 | 4,3 | 259 | DCH0305600*J# |
| 50 | 35 | 50 | 42 | 1,2 | 37,5 | 20,3 | 12 | 600 | 19,5 | 16 | 11 | 4,1 | 206 | DCH0305500*JSD |
| 50 | 35 | 50 | 42 | 1,2 | 37,5 | - | 12 | 600 | 14 | 14 | 10,5 | 4,8 | 241 | DCH0305500*J# |
| 47 | 30 | 45 | 42,5 | 1,2 | 37,5 | 20,3 | 12 | 564 | 17 | 14 | 10 | 4,3 | 203 | DCH0305470*JSD |
| 47 | 30 | 45 | 42,5 | 1,2 | 37,5 | - | 12 | 564 | 14 | 12,5 | 9 | 5 | 236 | DCH0305470*J# |
| 40 | 24 | 44 | 41,5 | 1,2 | 37,5 | 10,2 | 12 | 480 | 16 | 13 | 9 | 4,7 | 189 | DCH0305400*JSD |
| 40 | 24 | 44 | 41,5 | 1,2 | 37,5 | - | 12 | 480 | 14 | 12 | 8,5 | 5,4 | 217 | DCH0305400*J# |
| 35 | 28 | 37 | 42,5 | 1,2 | 37,5 | 10,2 | 12 | 420 | 14 | 11 | 8 | 5 | 176 | DCH0305350*JSD |
| 35 | 28 | 37 | 42,5 | 1,2 | 37,5 | - | 12 | 420 | 13 | 10,5 | 7,5 | 5,7 | 200 | DCH0305350*J# |
| 33 | 28 | 37 | 42,5 | 1,2 | 37,5 | 10,2 | 12 | 396 | 13,5 | 10,5 | 7,5 | 5,2 | 172 | DCH0305330*JSD |
| 33 | 28 | 37 | 42,5 | 1,2 | 37,5 | - | 12 | 396 | 12,5 | 10 | 7 | 5,9 | 196 | DCH0305330*J# |
| 30 | 20 | 40 | 41,5 | 1,2 | 37,5 | 10,2 | 12 | 360 | 13 | 10,5 | 7,5 | 5,5 | 166 | DCH0305300*JSD |
| 30 | 20 | 40 | 41,5 | 1,2 | 37,5 | - | 12 | 360 | 12 | 10 | 7 | 6,2 | 187 | DCH0305300*J# |
| 25 | 22 | 33,5 | 42,5 | 1,2 | 37,5 | - | 12 | 300 | 10 | 8,5 | 6 | 6,8 | 171 | DCH0305250*J# |
| 22 | 22 | 33,5 | 42,5 | 1,2 | 37,5 | - | 12 | 264 | 10 | 8 | 5,5 | 7,3 | 161 | DCH0305220*J# |
| 20 | 20 | 30 | 42,5 | 1,2 | 37,5 | - | 12 | 240 | 9,5 | 7,5 | 5,5 | 7,6 | 153 | DCH0305200*J# |
| 20 | 22 | 37 | 32 | 1,2 | 27,5 | 10,2 | 18 | 360 | 12,5 | 10,5 | 7,5 | 5,6 | 113 | DCH0305200*HSD |
| 20 | 22 | 37 | 32 | 1,2 | 27,5 | - | 18 | 360 | 11,5 | 9,5 | 6,5 | 6,3 | 127 | DCH0305200*H# |
| 18 | 22 | 37 | 32 | 1,2 | 27,5 | 10,2 | 18 | 324 | 12 | 10 | 7 | 5,9 | 107 | DCH0305180*HSD |
| 18 | 22 | 37 | 32 | 1,2 | 27,5 | - | 18 | 324 | 11 | 9 | 6,5 | 6,6 | 119 | DCH0305180*H# |
| 15 | 17 | 28 | 42,5 | 1,2 | 37,5 | - | 12 | 180 | 8 | 6,5 | 4,5 | 8,7 | 131 | DCH0305150*J# |
| 15 | 22 | 37 | 32 | 1,2 | 27,5 | 10,2 | 18 | 270 | 11,5 | 9,5 | 6,5 | 6,5 | 98 | DCH0305150*HSD |
| 15 | 22 | 37 | 32 | 1,2 | 27,5 | - | 18 | 270 | 10,5 | 8,5 | 6 | 7,2 | 109 | DCH0305150*H# |
| 12 | 18 | 33 | 32 | 1,2 | 27,5 | - | 18 | 216 | 9 | 7,5 | 5 | 8,1 | 98 | DCH0305120*H# |
| 7,5 | 15 | 24,5 | 32 | 1 | 27,5 | - | 18 | 135 | 6 | 4,5 | 3 | 11 | 93 | DCH0304750*H# |
| 6,8 | 15 | 24,5 | 32 | 1 | 27,5 | - | 18 | 122,4 | 5,5 | 4,5 | 3 | 11,6 | 89 | DCH0304680*H# |
| 5 | 13 | 22 | 32 | 1 | 27,5 | - | 18 | 90 | 4,5 | 3,5 | 2,5 | 13,6 | 77 | DCH0304500*H# |
| 4,7 | 13 | 22 | 32 | 1 | 27,5 | - | 18 | 84,6 | 4,5 | 3,5 | 2,5 | 14 | 74 | DCH0304470*H# |

[1] at f = 10kHz÷60kHz for P = 27.5mm, at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; Irms rating for ΔT/Ta (Ta = T ambient) = +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); Irms values, with all terminals connected, are referred to max. tolerance on rated Capacitance = ±10%, for wider C tolerances, ESR variation from typical data and related different power dissipation must be taken in consideration
[2] typical value, with all terminals connected, at f = 10kHz÷60kHz for P = 27.5mm, at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration
[3] change the "*" symbol with the desired capacitance tolerance code (±5% = J; ±10% = K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals
[4] In progress

info@muecap.de

# DCH / DCS *NEW - In Progress*

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• DC-Link • medium-high current • medium-high frequency
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**DCH035…: Ur = 600Vdc at +85°C (case); max. admissible voltage at +70°C (case) = 640Vdc**
**(45x65x42,5mm box in progress)**

| Cn | Dimensions (mm) | | | | | | du/dt | Ipeak | Irms max.[1] | | | ESR[2] | DF MAX. | ICEL CODE[3] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| μF | B | H | L | d | P | P1 | V/μs | A | A (ΔT=+15°C) | A (ΔT=+10°C) | A (ΔT=+5°C) | mΩ | x $10^{-4}$ @10kHz | - |
| 125 | 45 | 65 | 57,5 | 1,2 | 52,5 | 10,2 | 10 | 1250 | 30,5 | 25 | 17,5 | 2,5 | 314 | DCH0356125*RST [4] |
| 125 | 45 | 65 | 57,5 | 1,2 | 52,5 | 20,3 | 10 | 1250 | 27 | 24,5 | 17 | 2,6 | 327 | DCH0356125*RSD [4] |
| 90 | 38 | 57,5 | 57,5 | 1,2 | 52,5 | 20,3 | 10 | 900 | 24 | 19,5 | 14 | 3,1 | 280 | DCH0355900*RSD |
| 80 | 38 | 57,5 | 57,5 | 1,2 | 52,5 | 20,3 | 10 | 800 | 23 | 18,5 | 13 | 3,3 | 265 | DCH0355800*RSD |
| 75 | 35 | 50 | 57,5 | 1,2 | 52,5 | 20,3 | 10 | 750 | 21 | 17 | 12 | 3,5 | 264 | DCH0355750*RSD |
| 75 | 35 | 50 | 57,5 | 1,2 | 52,5 | - | 10 | 750 | 14 | 14 | 11 | 4,2 | 317 | DCH0355750*R# |
| 68 | 35 | 50 | 57,5 | 1,2 | 52,5 | 20,3 | 10 | 680 | 20 | 16,5 | 11,5 | 3,7 | 253 | DCH0355680*RSD |
| 68 | 35 | 50 | 57,5 | 1,2 | 52,5 | - | 10 | 680 | 14 | 14 | 10,5 | 4,4 | 301 | DCH0355680*R# |
| 60 | 35 | 50 | 57,5 | 1,2 | 52,5 | 20,3 | 10 | 600 | 19,5 | 16 | 11 | 4 | 241 | DCH0355600*RSD |
| 60 | 35 | 50 | 57,5 | 1,2 | 52,5 | - | 10 | 600 | 14 | 14 | 10 | 4,7 | 283 | DCH0355600*R# |
| 55 | 30 | 45 | 57,5 | 1,2 | 52,5 | 20,3 | 10 | 550 | 17,5 | 14 | 10 | 4,2 | 232 | DCH0355550*RSD |
| 55 | 30 | 45 | 57,5 | 1,2 | 52,5 | - | 10 | 550 | 14 | 13 | 9 | 4,9 | 271 | DCH0355550*R# |
| 50 | 30 | 45 | 57,5 | 1,2 | 52,5 | 20,3 | 10 | 500 | 17 | 14 | 9,5 | 4,4 | 221 | DCH0355500*RSD |
| 50 | 30 | 45 | 57,5 | 1,2 | 52,5 | - | 10 | 500 | 14 | 13 | 9 | 5,1 | 256 | DCH0355500*R# |
| 50 | 35 | 50 | 42 | 1,2 | 37,5 | 20,3 | 15 | 750 | 21 | 17 | 12 | 3,6 | 181 | DCH0355500*JSD |
| 50 | 35 | 50 | 42 | 1,2 | 37,5 | - | 15 | 750 | 14 | 14 | 11 | 4,3 | 216 | DCH0355500*J# |
| 47 | 35 | 50 | 42 | 1,2 | 37,5 | 20,3 | 15 | 705 | 20,5 | 16,5 | 12 | 3,8 | 179 | DCH0355470*JSD |
| 47 | 35 | 50 | 42 | 1,2 | 37,5 | - | 15 | 705 | 14 | 14 | 10,5 | 4,5 | 213 | DCH0355470*J# |
| 40 | 35 | 50 | 42 | 1,2 | 37,5 | 20,3 | 15 | 600 | 19,5 | 15,5 | 11 | 4,1 | 165 | DCH0355400*JSD |
| 40 | 35 | 50 | 42 | 1,2 | 37,5 | - | 15 | 600 | 14 | 14 | 10 | 4,8 | 193 | DCH0355400*J# |
| 35 | 30 | 45 | 42,5 | 1,2 | 37,5 | 20,3 | 15 | 525 | 16,5 | 13,5 | 9,5 | 4,4 | 155 | DCH0355350*JSD |
| 35 | 30 | 45 | 42,5 | 1,2 | 37,5 | - | 15 | 525 | 14 | 12,5 | 9 | 5,1 | 179 | DCH0355350*J# |
| 33 | 30 | 45 | 42,5 | 1,2 | 37,5 | 20,3 | 15 | 495 | 16,5 | 13,5 | 9,5 | 4,6 | 153 | DCH0355330*JSD |
| 33 | 30 | 45 | 42,5 | 1,2 | 37,5 | - | 15 | 495 | 14 | 12,5 | 9 | 5,3 | 176 | DCH0355330*J# |
| 30 | 24 | 44 | 41,5 | 1,2 | 37,5 | 10,2 | 15 | 450 | 15,5 | 12,5 | 9 | 4,8 | 145 | DCH0355300*JSD |
| 30 | 24 | 44 | 41,5 | 1,2 | 37,5 | - | 15 | 450 | 14 | 11,5 | 8 | 5,5 | 166 | DCH0355300*J# |
| 25 | 28 | 37 | 42,5 | 1,2 | 37,5 | 10,2 | 15 | 375 | 13,5 | 11 | 8 | 5,3 | 133 | DCH0355250*JSD |
| 25 | 28 | 37 | 42,5 | 1,2 | 37,5 | - | 15 | 375 | 12,5 | 10 | 7 | 6 | 151 | DCH0355250*J# |
| 22 | 20 | 40 | 41,5 | 1,2 | 37,5 | 10,2 | 15 | 330 | 13 | 10,5 | 7,5 | 5,7 | 126 | DCH0355220*JSD |
| 22 | 20 | 40 | 41,5 | 1,2 | 37,5 | - | 15 | 330 | 12 | 9,5 | 7 | 6,4 | 141 | DCH0355220*J# |
| 20 | 20 | 40 | 41,5 | 1,2 | 37,5 | 10,2 | 15 | 300 | 12,5 | 10 | 7 | 6 | 121 | DCH0355200*JSD |
| 20 | 20 | 40 | 41,5 | 1,2 | 37,5 | - | 15 | 300 | 11,5 | 9 | 6,5 | 6,7 | 135 | DCH0355200*J# |
| 18 | 22 | 33,5 | 42,5 | 1,2 | 37,5 | - | 15 | 270 | 10 | 8 | 5,5 | 7,1 | 128 | DCH0355180*J# |
| 15 | 22 | 30 | 42,5 | 1,2 | 37,5 | - | 15 | 225 | 9 | 7 | 5 | 7,7 | 116 | DCH0355150*J# |
| 15 | 22 | 37 | 32 | 1,2 | 27,5 | 10,2 | 21,5 | 322,5 | 12 | 10 | 7 | 5,8 | 87 | DCH0355150*HSD |
| 15 | 22 | 37 | 32 | 1,2 | 27,5 | - | 21,5 | 322,5 | 11 | 9 | 6 | 6,5 | 98 | DCH0355150*H# |
| 12 | 17 | 32 | 42,5 | 1,2 | 37,5 | - | 15 | 180 | 8,5 | 7 | 5 | 8,6 | 104 | DCH0355120*J# |
| 12 | 22 | 37 | 32 | 1,2 | 27,5 | 10,2 | 21,5 | 258 | 11 | 9 | 6 | 6,6 | 80 | DCH0355120*HSD |
| 12 | 22 | 37 | 32 | 1,2 | 27,5 | - | 21,5 | 258 | 10,5 | 8,5 | 6 | 7,3 | 88 | DCH0355120*H# |
| 10 | 17 | 28 | 42,5 | 1,2 | 37,5 | - | 15 | 150 | 7,5 | 6 | 4,5 | 9,4 | 94 | DCH0355100*J# |
| 10 | 18 | 33 | 32 | 1,2 | 27,5 | - | 21,5 | 215 | 8,5 | 7 | 5 | 8 | 80 | DCH0355100*H# |
| 6,8 | 14 | 28 | 32 | 1,2 | 27,5 | - | 21,5 | 146,2 | 7 | 5,5 | 4 | 9,8 | 67 | DCH0354680*H# |
| 6 | 15 | 24,5 | 32 | 1 | 27,5 | - | 21,5 | 129 | 6 | 5 | 3,5 | 11,1 | 75 | DCH0354600*H# |
| 5 | 15 | 24,5 | 32 | 1 | 27,5 | - | 21,5 | 107,5 | 5,5 | 4,5 | 3 | 12,1 | 68 | DCH0354500*H# |
| 4,7 | 15 | 24,5 | 32 | 1 | 27,5 | - | 21,5 | 101,05 | 5,5 | 4,5 | 3 | 12,5 | 66 | DCH0354470*H# |
| 4 | 13 | 22 | 32 | 1 | 27,5 | - | 21,5 | 86 | 5 | 4 | 2,5 | 13,6 | 61 | DCH0354400*H# |
| 3,3 | 13 | 22 | 32 | 1 | 27,5 | - | 21,5 | 70,95 | 4,5 | 3,5 | 2,5 | 15 | 56 | DCH0354330*H# |
| 3 | 13 | 22 | 32 | 1 | 27,5 | - | 21,5 | 64,5 | 4,5 | 3,5 | 2,5 | 15,7 | 53 | DCH0354300*H# |

[1] at f = 10kHz÷60kHz for P = 27.5mm, at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; Irms rating for ΔT/Ta (Ta = T ambient) = +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); Irms values, with all terminals connected, are referred to max. tolerance on rated Capacitance = ±10%, for wider C tolerances, ESR variation from typical data and related different power dissipation must be taken in consideration
[2] typical value, with all terminals connected, at f = 10kHz÷60kHz for P = 27.5mm, at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration
[3] change the "*" symbol with the desired capacitance tolerance code (±5% = J; ±10% = K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals
[4] In progress

MUE CAP
info@muecap.de

# DCH / DCS *NEW - In Progress*

MKP • box with multiple radial terminals • high energy density • DC-Link • medium-high current • medium-high frequency • not suitable for AC applications • DCS: high safety version


**DCH040…: Ur = 700Vdc at +85°C (case); max. admissible voltage at +70°C (case) = 750Vdc**
**(45x65x42,5mm box in progress)**

| Cn | Dimensions (mm) | | | | | | du/dt | Ipeak | Irms max.[1] | | | ESR[2] | DF MAX. | ICEL CODE[3] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| μF | B | H | L | d | P | P1 | V/μs | A | A (ΔT=+15°C) | A (ΔT=+10°C) | A (ΔT=+5°C) | mΩ | x $10^{-4}$ @10kHz | - |
| 100 | 45 | 65 | 57,5 | 1,2 | 52,5 | 10,2 | 11,5 | 1150 | 29 | 23,5 | 16,5 | 2,7 | 271 | DCH0406100*RST [4] |
| 100 | 45 | 65 | 57,5 | 1,2 | 52,5 | 20,3 | 11,5 | 1150 | 27 | 23 | 16,5 | 2,8 | 281 | DCH0406100*RSD [4] |
| 75 | 38 | 57,5 | 57,5 | 1,2 | 52,5 | 20,3 | 11,5 | 862,5 | 23 | 18,5 | 13 | 3,3 | 249 | DCH0405750*RSD |
| 68 | 38 | 57,5 | 57,5 | 1,2 | 52,5 | 20,3 | 11,5 | 782 | 22,5 | 18 | 13 | 3,5 | 239 | DCH0405680*RSD |
| 55 | 35 | 50 | 57,5 | 1,2 | 52,5 | 20,3 | 11,5 | 632,5 | 20 | 16 | 11,5 | 3,9 | 216 | DCH0405550*RSD |
| 55 | 35 | 50 | 57,5 | 1,2 | 52,5 | - | 11,5 | 632,5 | 14 | 14 | 10,5 | 4,6 | 254 | DCH0405550*R# |
| 50 | 35 | 50 | 57,5 | 1,2 | 52,5 | 20,3 | 11,5 | 575 | 19 | 15,5 | 11 | 4,1 | 206 | DCH0405500*RSD |
| 50 | 35 | 50 | 57,5 | 1,2 | 52,5 | - | 11,5 | 575 | 14 | 14 | 10 | 4,8 | 241 | DCH0405500*R# |
| 47 | 35 | 50 | 57,5 | 1,2 | 52,5 | 20,3 | 11,5 | 540,5 | 19 | 15,5 | 10,5 | 4,2 | 198 | DCH0405470*RSD |
| 47 | 35 | 50 | 57,5 | 1,2 | 52,5 | - | 11,5 | 540,5 | 14 | 14 | 10 | 4,9 | 231 | DCH0405470*R# |
| 40 | 30 | 45 | 57,5 | 1,2 | 52,5 | 20,3 | 11,5 | 460 | 16,5 | 13,5 | 9,5 | 4,7 | 189 | DCH0405400*RSD |
| 40 | 30 | 45 | 57,5 | 1,2 | 52,5 | - | 11,5 | 460 | 14 | 12,5 | 9 | 5,4 | 217 | DCH0405400*R# |
| 40 | 35 | 50 | 42 | 1,2 | 37,5 | 20,3 | 16,5 | 660 | 20,5 | 16,5 | 12 | 3,9 | 157 | DCH0405400*JSD |
| 40 | 35 | 50 | 42 | 1,2 | 37,5 | - | 16,5 | 660 | 14 | 14 | 10,5 | 4,6 | 185 | DCH0405400*J# |
| 33 | 30 | 45 | 57,5 | 1,2 | 52,5 | 20,3 | 11,5 | 379,5 | 15,5 | 12,5 | 9 | 5,3 | 176 | DCH0405330*RSD |
| 33 | 30 | 45 | 57,5 | 1,2 | 52,5 | - | 11,5 | 379,5 | 14 | 12 | 8,5 | 6 | 199 | DCH0405330*R# |
| 33 | 35 | 50 | 42 | 1,2 | 37,5 | 20,3 | 16,5 | 544,5 | 19 | 15,5 | 11 | 4,4 | 146 | DCH0405330*JSD |
| 33 | 35 | 50 | 42 | 1,2 | 37,5 | - | 16,5 | 544,5 | 14 | 14 | 10 | 5,1 | 169 | DCH0405330*J# |
| 30 | 30 | 45 | 42,5 | 1,2 | 37,5 | 20,3 | 16,5 | 495 | 16,5 | 13,5 | 9,5 | 4,6 | 139 | DCH0405300*JSD |
| 30 | 30 | 45 | 42,5 | 1,2 | 37,5 | - | 16,5 | 495 | 14 | 12,5 | 9 | 5,3 | 160 | DCH0405300*J# |
| 22 | 24 | 44 | 41,5 | 1,2 | 37,5 | 10,2 | 16,5 | 363 | 14,5 | 12 | 8,5 | 5,5 | 122 | DCH0405220*JSD |
| 22 | 24 | 44 | 41,5 | 1,2 | 37,5 | - | 16,5 | 363 | 13,5 | 11 | 8 | 6,2 | 137 | DCH0405220*J# |
| 22 | 28 | 37 | 42,5 | 1,2 | 37,5 | 10,2 | 16,5 | 363 | 13 | 10,5 | 7,5 | 5,5 | 122 | DCH0405220*JSDA |
| 22 | 28 | 37 | 42,5 | 1,2 | 37,5 | - | 16,5 | 363 | 12,5 | 10 | 7 | 6,2 | 137 | DCH0405220*J#A |
| 20 | 24 | 44 | 41,5 | 1,2 | 37,5 | 10,2 | 16,5 | 330 | 14 | 11,5 | 8 | 5,7 | 115 | DCH0405200*JSD |
| 20 | 24 | 44 | 41,5 | 1,2 | 37,5 | - | 16,5 | 330 | 13,5 | 11 | 7,5 | 6,4 | 129 | DCH0405200*J# |
| 20 | 28 | 37 | 42,5 | 1,2 | 37,5 | 10,2 | 16,5 | 330 | 13 | 10,5 | 7,5 | 5,7 | 115 | DCH0405200*JSDA |
| 20 | 28 | 37 | 42,5 | 1,2 | 37,5 | - | 16,5 | 330 | 12 | 10 | 7 | 6,4 | 129 | DCH0405200*J#A |
| 18 | 20 | 40 | 41,5 | 1,2 | 37,5 | 10,2 | 16,5 | 297 | 12,5 | 10 | 7 | 6,1 | 110 | DCH0405180*JSD |
| 18 | 20 | 40 | 41,5 | 1,2 | 37,5 | - | 16,5 | 297 | 12 | 9,5 | 7 | 6,8 | 123 | DCH0405180*J# |
| 15 | 22 | 33,5 | 42,5 | 1,2 | 37,5 | - | 16,5 | 247,5 | 10 | 8 | 6 | 7,4 | 112 | DCH0405150*J# |
| 12 | 22 | 30 | 42,5 | 1,2 | 37,5 | - | 16,5 | 198 | 9 | 7 | 5 | 8,3 | 100 | DCH0405120*J# |
| 10 | 17 | 32 | 42,5 | 1,2 | 37,5 | - | 16,5 | 165 | 8 | 6,5 | 4,5 | 9,1 | 91 | DCH0405100*J# |
| 10 | 22 | 37 | 32 | 1,2 | 27,5 | 10,2 | 24 | 240 | 11 | 9 | 6,5 | 6,8 | 68 | DCH0405100*HSD |
| 10 | 22 | 37 | 32 | 1,2 | 27,5 | - | 24 | 240 | 10,5 | 8,5 | 6 | 7,5 | 75 | DCH0405100*H# |
| 8 | 17 | 28 | 42,5 | 1,2 | 37,5 | - | 16,5 | 132 | 7 | 5,5 | 4 | 10,2 | 82 | DCH0404800*J# |
| 8 | 18 | 33 | 32 | 1,2 | 27,5 | - | 24 | 192 | 8,5 | 7 | 5 | 8,4 | 68 | DCH0404800*H# |
| 6,8 | 18 | 33 | 32 | 1,2 | 27,5 | - | 24 | 163,2 | 8 | 6,5 | 4,5 | 9,1 | 62 | DCH0404680*H# |
| 5 | 14 | 28 | 32 | 1,2 | 27,5 | - | 24 | 120 | 6,5 | 5 | 3,5 | 10,7 | 54 | DCH0404500*H# |
| 4,7 | 14 | 28 | 32 | 1,2 | 27,5 | - | 24 | 112,8 | 6,5 | 5 | 3,5 | 11 | 52 | DCH0404470*H# |
| 4 | 15 | 24,5 | 32 | 1 | 27,5 | - | 24 | 96 | 5,5 | 4,5 | 3 | 12,6 | 57 | DCH0404400*H# |
| 3 | 13 | 22 | 32 | 1 | 27,5 | - | 24 | 72 | 4,5 | 3,5 | 2,5 | 14,5 | 49 | DCH0404300*H# |

[1] at f = 10kHz÷60kHz for P = 27.5mm, at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; Irms rating for ΔT/Ta (Ta = T ambient) = +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); Irms values, with all terminals connected, are referred to max. tolerance on rated Capacitance = ±10%, for wider C tolerances, ESR variation from typical data and related different power dissipation must be taken in consideration

[2] typical value, with all terminals connected, at f = 10kHz÷60kHz for P = 27.5mm, at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration

[3] change the "*" symbol with the desired capacitance tolerance code (±5% = J; ±10% = K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals

[4] In progress

info@muecap.de

# DCH / DCS *NEW - In Progress*

MKP • box with multiple radial terminals • high energy density
• DC-Link • medium-high current • medium-high frequency
• not suitable for AC applications • DCS: high safety version


**DCH045…: Ur = 800Vdc at +85°C (case); max. admissible voltage at +70°C (case) = 855Vdc**
**(45x65x42,5mm box in progress)**

| Cn | Dimensions (mm) | | | | | | du/dt | Ipeak | Irms max.[1] | | | ESR[2] | DF MAX. | ICEL CODE[3] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| μF | B | H | L | d | P | P1 | V/μs | A | A (ΔT=+15°C) | A (ΔT=+10°C) | A (ΔT=+5°C) | mΩ | x $10^{-4}$ @10kHz | - |
| 80 | 45 | 65 | 57,5 | 1,2 | 52,5 | 10,2 | 13 | 1040 | 28,5 | 23 | 16,5 | 2,8 | 225 | DCH0455800*RST [4] |
| 80 | 45 | 65 | 57,5 | 1,2 | 52,5 | 20,3 | 13 | 1040 | 27 | 22,5 | 16 | 2,9 | 233 | DCH0455800*RSD [4] |
| 75 | 45 | 65 | 57,5 | 1,2 | 52,5 | 10,2 | 13 | 975 | 28 | 22,5 | 16 | 2,9 | 219 | DCH0455750*RST [4] |
| 75 | 45 | 65 | 57,5 | 1,2 | 52,5 | 20,3 | 13 | 975 | 27 | 22,5 | 15,5 | 3 | 226 | DCH0455750*RSD [4] |
| 60 | 38 | 57,5 | 57,5 | 1,2 | 52,5 | 20,3 | 13 | 780 | 23 | 18,5 | 13 | 3,4 | 205 | DCH0455600*RSD |
| 50 | 38 | 57,5 | 57,5 | 1,2 | 52,5 | 20,3 | 13 | 650 | 21,5 | 17,5 | 12,5 | 3,8 | 191 | DCH0455500*RSD |
| 47 | 35 | 50 | 57,5 | 1,2 | 52,5 | 20,3 | 13 | 611 | 20 | 16,5 | 11,5 | 3,9 | 184 | DCH0455470*RSD |
| 47 | 35 | 50 | 57,5 | 1,2 | 52,5 | - | 13 | 611 | 14 | 14 | 10,5 | 4,6 | 217 | DCH0455470*R# |
| 40 | 35 | 50 | 57,5 | 1,2 | 52,5 | 20,3 | 13 | 520 | 19 | 15,5 | 11 | 4,3 | 173 | DCH0455400*RSD |
| 40 | 35 | 50 | 57,5 | 1,2 | 52,5 | - | 13 | 520 | 14 | 14 | 10 | 5 | 201 | DCH0455400*R# |
| 35 | 30 | 45 | 57,5 | 1,2 | 52,5 | 20,3 | 13 | 455 | 16,5 | 13,5 | 9,5 | 4,7 | 165 | DCH0455350*RSD |
| 35 | 30 | 45 | 57,5 | 1,2 | 52,5 | - | 13 | 455 | 14 | 12,5 | 8,5 | 5,4 | 190 | DCH0455350*R# |
| 33 | 35 | 50 | 42 | 1,2 | 37,5 | 20,3 | 18,5 | 610,5 | 20 | 16,5 | 11,5 | 4 | 133 | DCH0455330*JSD |
| 33 | 35 | 50 | 42 | 1,2 | 37,5 | - | 18,5 | 610,5 | 14 | 14 | 10,5 | 4,7 | 156 | DCH0455330*J# |
| 30 | 30 | 45 | 57,5 | 1,2 | 52,5 | 20,3 | 13 | 390 | 16 | 13 | 9 | 4,9 | 148 | DCH0455300*RSD |
| 30 | 30 | 45 | 57,5 | 1,2 | 52,5 | - | 13 | 390 | 14 | 12,5 | 8,5 | 5,6 | 169 | DCH0455300*R# |
| 30 | 35 | 50 | 42 | 1,2 | 37,5 | 20,3 | 18,5 | 555 | 19,5 | 16 | 11 | 4,2 | 127 | DCH0455300*JSD |
| 30 | 35 | 50 | 42 | 1,2 | 37,5 | - | 18,5 | 555 | 14 | 14 | 10,5 | 4,9 | 148 | DCH0455300*J# |
| 22 | 30 | 45 | 42,5 | 1,2 | 37,5 | 20,3 | 18,5 | 407 | 15,5 | 12,5 | 9 | 5,1 | 113 | DCH0455220*JSD |
| 22 | 30 | 45 | 42,5 | 1,2 | 37,5 | - | 18,5 | 407 | 14 | 11,5 | 8,5 | 5,8 | 128 | DCH0455220*J# |
| 20 | 24 | 44 | 41,5 | 1,2 | 37,5 | 10,2 | 18,5 | 370 | 15 | 12 | 8,5 | 5,3 | 107 | DCH0455200*JSD |
| 20 | 24 | 44 | 41,5 | 1,2 | 37,5 | - | 18,5 | 370 | 14 | 11,5 | 8 | 6 | 121 | DCH0455200*J# |
| 18 | 28 | 37 | 42,5 | 1,2 | 37,5 | 10,2 | 18,5 | 333 | 13 | 10,5 | 7,5 | 5,6 | 101 | DCH0455180*JSD |
| 18 | 28 | 37 | 42,5 | 1,2 | 37,5 | - | 18,5 | 333 | 12 | 10 | 7 | 6,3 | 114 | DCH0455180*J# |
| 15 | 20 | 40 | 41,5 | 1,2 | 37,5 | 10,2 | 18,5 | 277,5 | 12,5 | 10 | 7 | 6,2 | 93 | DCH0455150*JSD |
| 15 | 20 | 40 | 41,5 | 1,2 | 37,5 | - | 18,5 | 277,5 | 11,5 | 9,5 | 6,5 | 6,9 | 104 | DCH0455150*J# |
| 12 | 22 | 33,5 | 42,5 | 1,2 | 37,5 | - | 18,5 | 222 | 9,5 | 7,5 | 5,5 | 7,8 | 94 | DCH0455120*J# |
| 10 | 22 | 30 | 42,5 | 1,2 | 37,5 | - | 18,5 | 185 | 8,5 | 7 | 5 | 8,5 | 85 | DCH0455100*J# |
| 9 | 22 | 37 | 32 | 1,2 | 27,5 | 10,2 | 27,5 | 247,5 | 11 | 9 | 6,5 | 6,8 | 61 | DCH0454900*HSD |
| 9 | 22 | 37 | 32 | 1,2 | 27,5 | - | 27,5 | 247,5 | 10,5 | 8,5 | 6 | 7,5 | 68 | DCH0454900*H# |
| 8 | 17 | 32 | 42,5 | 1,2 | 37,5 | - | 18,5 | 148 | 8 | 6,5 | 4,5 | 9,5 | 76 | DCH0454800*J# |
| 6,8 | 17 | 28 | 42,5 | 1,2 | 37,5 | - | 18,5 | 125,8 | 7 | 5,5 | 4 | 10,3 | 70 | DCH0454680*J# |
| 6,8 | 18 | 33 | 32 | 1,2 | 27,5 | - | 27,5 | 187 | 8,5 | 7 | 5 | 8,6 | 59 | DCH0454680*H# |
| 4 | 14 | 28 | 32 | 1,2 | 27,5 | - | 27,5 | 110 | 6 | 5 | 3,5 | 11,2 | 45 | DCH0454400*H# |
| 3,3 | 15 | 24,5 | 32 | 1 | 27,5 | - | 27,5 | 90,75 | 5,5 | 4,5 | 3 | 13 | 48 | DCH0454330*H# |
| 3 | 15 | 24,5 | 32 | 1 | 27,5 | - | 27,5 | 82,5 | 5 | 4 | 3 | 13,6 | 46 | DCH0454300*H# |
| 2,5 | 13 | 22 | 32 | 1 | 27,5 | - | 27,5 | 68,75 | 4,5 | 3,5 | 2,5 | 14,9 | 42 | DCH0454250*H# |
| 2,2 | 13 | 22 | 32 | 1 | 27,5 | - | 27,5 | 60,5 | 4,5 | 3,5 | 2,5 | 15,9 | 40 | DCH0454220*H# |

(1) at f = 10kHz÷60kHz for P = 27.5mm, at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; Irms rating for ΔT/Ta (Ta = T ambient) = +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); Irms values, with all terminals connected, are referred to max. tolerance on rated Capacitance = ±10%, for wider C tolerances, ESR variation from typical data and related different power dissipation must be taken in consideration
(2) typical value, with all terminals connected, at f = 10kHz÷60kHz for P = 27.5mm, at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration
(3) change the "*" symbol with the desired capacitance tolerance code (±5% = J; ±10% = K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals
(4) In progress

# DCH / DCS *NEW - In Progress*

MKP • box with multiple radial terminals • high energy density
• DC-Link • medium-high current • medium-high frequency
• not suitable for AC applications • DCS: high safety version


**DCH050…: Ur = 900Vdc at +85°C (case); max. admissible voltage at +70°C (case) = 965Vdc**
**(45x65x42,5mm box in progress)**

| Cn | Dimensions (mm) | | | | | | du/dt | Ipeak | Irms max.[1] | | | ESR[2] | DF MAX. | ICEL CODE[3] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| µF | B | H | L | d | P | P1 | V/µs | A | A (ΔT=+15°C) | A (ΔT=+10°C) | A (ΔT=+5°C) | mΩ | x 10⁻⁴ @10kHz | - |
| 68 | 45 | 65 | 57,5 | 1,2 | 52,5 | 10,2 | 14 | 952 | 28,5 | 23 | 16,5 | 2,8 | 191 | DCH0505680*RST [4] |
| 68 | 45 | 65 | 57,5 | 1,2 | 52,5 | 20,3 | 14 | 952 | 27 | 22,5 | 16 | 2,9 | 198 | DCH0505680*RSD [4] |
| 60 | 45 | 65 | 57,5 | 1,2 | 52,5 | 20,3 | 14 | 840 | 26,5 | 21,5 | 15 | 3,2 | 193 | DCH0505600*RSD [4] |
| 50 | 38 | 57,5 | 57,5 | 1,2 | 52,5 | 20,3 | 14 | 700 | 22,5 | 18,5 | 13 | 3,5 | 176 | DCH0505500*RSD |
| 47 | 38 | 57,5 | 57,5 | 1,2 | 52,5 | 20,3 | 14 | 658 | 22 | 18 | 12,5 | 3,6 | 170 | DCH0505470*RSD |
| 35 | 35 | 50 | 57,5 | 1,2 | 52,5 | 20,3 | 14 | 490 | 18,5 | 15 | 10,5 | 4,4 | 155 | DCH0505350*RSD |
| 35 | 35 | 50 | 57,5 | 1,2 | 52,5 | - | 14 | 490 | 14 | 14 | 10 | 5,1 | 179 | DCH0505350*R# |
| 33 | 35 | 50 | 57,5 | 1,2 | 52,5 | 20,3 | 14 | 462 | 18,5 | 15 | 10,5 | 4,5 | 149 | DCH0505330*RSD |
| 33 | 35 | 50 | 57,5 | 1,2 | 52,5 | - | 14 | 462 | 14 | 14 | 10 | 5,2 | 172 | DCH0505330*R# |
| 25 | 30 | 45 | 57,5 | 1,2 | 52,5 | 20,3 | 14 | 350 | 16 | 13 | 9 | 5,2 | 131 | DCH0505250*RSD |
| 25 | 30 | 45 | 57,5 | 1,2 | 52,5 | - | 14 | 350 | 14 | 12 | 8,5 | 5,9 | 148 | DCH0505250*R# |
| 25 | 35 | 50 | 42 | 1,2 | 37,5 | 20,3 | 21 | 525 | 19 | 15,5 | 11 | 4,3 | 108 | DCH0505250*JSD |
| 25 | 35 | 50 | 42 | 1,2 | 37,5 | - | 21 | 525 | 14 | 14 | 10 | 5 | 126 | DCH0505250*J# |
| 22 | 30 | 45 | 57,5 | 1,2 | 52,5 | 20,3 | 14 | 308 | 15 | 12 | 8,5 | 5,6 | 124 | DCH0505220*RSD |
| 22 | 30 | 45 | 57,5 | 1,2 | 52,5 | - | 14 | 308 | 14 | 11,5 | 8 | 6,3 | 139 | DCH0505220*R# |
| 22 | 35 | 50 | 42 | 1,2 | 37,5 | 20,3 | 21 | 462 | 18,5 | 15 | 10,5 | 4,7 | 104 | DCH0505220*JSD |
| 22 | 35 | 50 | 42 | 1,2 | 37,5 | - | 21 | 462 | 14 | 14 | 10 | 5,4 | 119 | DCH0505220*J# |
| 20 | 30 | 45 | 42,5 | 1,2 | 37,5 | 20,3 | 21 | 420 | 15,5 | 12,5 | 9 | 4,9 | 98 | DCH0505200*JSD |
| 20 | 30 | 45 | 42,5 | 1,2 | 37,5 | - | 21 | 420 | 14 | 12 | 8,5 | 5,6 | 113 | DCH0505200*J# |
| 15 | 24 | 44 | 41,5 | 1,2 | 37,5 | 10,2 | 21 | 315 | 14 | 11,5 | 8 | 5,8 | 87 | DCH0505150*JSD |
| 15 | 24 | 44 | 41,5 | 1,2 | 37,5 | - | 21 | 315 | 13 | 10,5 | 7,5 | 6,5 | 98 | DCH0505150*J# |
| 12 | 28 | 37 | 42,5 | 1,2 | 37,5 | 10,2 | 21 | 252 | 12 | 9,5 | 7 | 6,6 | 80 | DCH0505120*JSD |
| 12 | 28 | 37 | 42,5 | 1,2 | 37,5 | - | 21 | 252 | 11 | 9 | 6,5 | 7,3 | 88 | DCH0505120*J# |
| 12 | 20 | 40 | 41,5 | 1,2 | 37,5 | 10,2 | 21 | 252 | 12 | 9,5 | 7 | 6,6 | 80 | DCH0505120*JSDA |
| 12 | 20 | 40 | 41,5 | 1,2 | 37,5 | - | 21 | 252 | 11 | 9 | 6,5 | 7,3 | 88 | DCH0505120*J#A |
| 10 | 22 | 33,5 | 42,5 | 1,2 | 37,5 | - | 21 | 210 | 9,5 | 7,5 | 5,5 | 8 | 80 | DCH0505100*J# |
| 8 | 22 | 30 | 42,5 | 1,2 | 37,5 | - | 21 | 168 | 8,5 | 7 | 5 | 9 | 72 | DCH0504800*J# |
| 7,5 | 22 | 37 | 32 | 1,2 | 27,5 | 10,2 | 31 | 232,5 | 10,5 | 8,5 | 6 | 7,1 | 54 | DCH0504750*HSD |
| 7,5 | 22 | 37 | 32 | 1,2 | 27,5 | - | 31 | 232,5 | 10 | 8 | 5,5 | 7,8 | 59 | DCH0504750*H# |
| 6,8 | 17 | 32 | 42,5 | 1,2 | 37,5 | - | 21 | 142,8 | 8 | 6,5 | 4,5 | 9,6 | 66 | DCH0504680*J# |
| 6,8 | 22 | 37 | 32 | 1,2 | 27,5 | 10,2 | 31 | 210,8 | 10,5 | 8,5 | 6 | 7,5 | 51 | DCH0504680*HSD |
| 6,8 | 22 | 37 | 32 | 1,2 | 27,5 | - | 31 | 210,8 | 10 | 8 | 6 | 8,2 | 56 | DCH0504680*H# |
| 6 | 17 | 28 | 42,5 | 1,2 | 37,5 | - | 21 | 126 | 7 | 5,5 | 4 | 10,3 | 62 | DCH0504600*J# |
| 5 | 18 | 33 | 32 | 1,2 | 27,5 | - | 31 | 155 | 8 | 6,5 | 4,5 | 9,5 | 48 | DCH0504500*H# |
| 4,7 | 18 | 33 | 32 | 1,2 | 27,5 | - | 31 | 145,7 | 7,5 | 6 | 4 | 9,9 | 47 | DCH0504470*H# |
| 3,3 | 14 | 28 | 32 | 1,2 | 27,5 | - | 31 | 102,3 | 6 | 5 | 3,5 | 11,8 | 39 | DCH0504330*H# |
| 2,5 | 15 | 24,5 | 32 | 1 | 27,5 | - | 31 | 77,5 | 5 | 4 | 3 | 14,2 | 40 | DCH0504250*H# |
| 1,5 | 13 | 22 | 32 | 1 | 27,5 | - | 31 | 46,5 | 4 | 3,5 | 2,5 | 18,3 | 31 | DCH0504150*H# |

[1] at f = 10kHz÷60kHz for P = 27.5mm, at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; Irms rating for ΔT/Ta (Ta = T ambient) = +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); Irms values, with all terminals connected, are referred to max. tolerance on rated Capacitance = ±10%, for wider C tolerances, ESR variation from typical data and related different power dissipation must be taken in consideration
[2] typical value, with all terminals connected, at f = 10kHz÷60kHz for P = 27.5mm, at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration
[3] change the "*" symbol with the desired capacitance tolerance code (±5% = J; ±10% = K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals
[4] In progress

info@muecap.de

# DCH / DCS *NEW - In Progress*

MKP • box with multiple radial terminals • high energy density
• DC-Link • medium-high current • medium-high frequency
• not suitable for AC applications • DCS: high safety version


**DCH055…: Ur = 1030Vdc at +85°C (case); max. admissible voltage at +70°C (case) = 1100Vdc**
**(45x65x42,5mm box in progress)**

| Cn | Dimensions (mm) | | | | | | du/dt | Ipeak | Irms max.(1) | | | ESR(2) | DF MAX. | ICEL CODE(3) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| μF | B | H | L | d | P | P1 | V/μs | A | A (ΔT=+15°C) | A (ΔT=+10°C) | A (ΔT=+5°C) | mΩ | x $10^{-4}$ @10kHz | - |
| 55 | 45 | 65 | 57,5 | 1,2 | 52,5 | 10,2 | 16 | 880 | 28 | 22,5 | 16 | 2,9 | 160 | DCH0555550*RST (4) |
| 55 | 45 | 65 | 57,5 | 1,2 | 52,5 | 20,3 | 16 | 880 | 27 | 22,5 | 15,5 | 3 | 166 | DCH0555550*RSD (4) |
| 50 | 45 | 65 | 57,5 | 1,2 | 52,5 | 20,3 | 16 | 800 | 27 | 22 | 15,5 | 3,2 | 161 | DCH0555500*RSD (4) |
| 47 | 45 | 65 | 57,5 | 1,2 | 52,5 | 20,3 | 16 | 752 | 26,5 | 21,5 | 15 | 3,3 | 156 | DCH0555470*RSD (4) |
| 40 | 38 | 57,5 | 57,5 | 1,2 | 52,5 | 20,3 | 16 | 640 | 22 | 18 | 12,5 | 3,7 | 149 | DCH0555400*RSD |
| 35 | 38 | 57,5 | 57,5 | 1,2 | 52,5 | 20,3 | 16 | 560 | 21 | 17 | 12 | 4 | 141 | DCH0555350*RSD |
| 30 | 35 | 50 | 57,5 | 1,2 | 52,5 | 20,3 | 16 | 480 | 19 | 15,5 | 11 | 4,3 | 130 | DCH0555300*RSD |
| 30 | 35 | 50 | 57,5 | 1,2 | 52,5 | - | 16 | 480 | 14 | 14 | 10 | 5 | 151 | DCH0555300*R# |
| 25 | 35 | 50 | 57,5 | 1,2 | 52,5 | 20,3 | 16 | 400 | 17,5 | 14,5 | 10 | 4,9 | 123 | DCH0555250*RSD |
| 25 | 35 | 50 | 57,5 | 1,2 | 52,5 | - | 16 | 400 | 14 | 13,5 | 9,5 | 5,6 | 141 | DCH0555250*R# |
| 22 | 30 | 45 | 57,5 | 1,2 | 52,5 | 20,3 | 16 | 352 | 16 | 13 | 9 | 5,1 | 113 | DCH0555220*RSD |
| 22 | 30 | 45 | 57,5 | 1,2 | 52,5 | - | 16 | 352 | 14 | 12 | 8,5 | 5,8 | 128 | DCH0555220*R# |
| 20 | 35 | 50 | 42 | 1,2 | 37,5 | 20,3 | 23,5 | 470 | 19 | 15,5 | 11 | 4,5 | 90 | DCH0555200*JSD |
| 20 | 35 | 50 | 42 | 1,2 | 37,5 | - | 23,5 | 470 | 14 | 14 | 10 | 5,2 | 104 | DCH0555200*J# |
| 15 | 30 | 45 | 42,5 | 1,2 | 37,5 | 20,3 | 23,5 | 352,5 | 15 | 12 | 8,5 | 5,3 | 80 | DCH0555150*JSD |
| 15 | 30 | 45 | 42,5 | 1,2 | 37,5 | - | 23,5 | 352,5 | 14 | 11,5 | 8 | 6 | 90 | DCH0555150*J# |
| 12 | 24 | 44 | 41,5 | 1,2 | 37,5 | 10,2 | 23,5 | 282 | 14 | 11,5 | 8 | 6 | 72 | DCH0555120*JSD |
| 12 | 24 | 44 | 41,5 | 1,2 | 37,5 | - | 23,5 | 282 | 13 | 10,5 | 7,5 | 6,7 | 81 | DCH0555120*J# |
| 10 | 28 | 37 | 42,5 | 1,2 | 37,5 | 10,2 | 23,5 | 235 | 12 | 9,5 | 7 | 6,6 | 66 | DCH0555100*JSD |
| 10 | 28 | 37 | 42,5 | 1,2 | 37,5 | - | 23,5 | 235 | 11 | 9 | 6,5 | 7,3 | 73 | DCH0555100*J# |
| 9 | 20 | 40 | 41,5 | 1,2 | 37,5 | 10,2 | 23,5 | 211,5 | 11,5 | 9,5 | 6,5 | 7 | 63 | DCH0554900*JSD |
| 9 | 20 | 40 | 41,5 | 1,2 | 37,5 | - | 23,5 | 211,5 | 11 | 9 | 6,5 | 7,7 | 70 | DCH0554900*J# |
| 7,5 | 22 | 33,5 | 42,5 | 1,2 | 37,5 | - | 23,5 | 176,25 | 9 | 7 | 5 | 8,4 | 63 | DCH0554750*J# |
| 6,8 | 22 | 33,5 | 42,5 | 1,2 | 37,5 | - | 23,5 | 159,8 | 9 | 7 | 5 | 8,8 | 60 | DCH0554680*J# |
| 6 | 22 | 30 | 42,5 | 1,2 | 37,5 | - | 23,5 | 141 | 8 | 6,5 | 4,5 | 9,5 | 57 | DCH0554600*J# |
| 6 | 22 | 37 | 32 | 1,2 | 27,5 | 10,2 | 34,5 | 207 | 10,5 | 8,5 | 6 | 7,3 | 44 | DCH0554600*HSD |
| 6 | 22 | 37 | 32 | 1,2 | 27,5 | - | 34,5 | 207 | 10 | 8 | 6 | 8 | 48 | DCH0554600*H# |
| 5 | 17 | 32 | 42,5 | 1,2 | 37,5 | - | 23,5 | 117,5 | 7,5 | 6 | 4,5 | 10,3 | 52 | DCH0554500*J# |
| 5 | 22 | 37 | 32 | 1,2 | 27,5 | 10,2 | 34,5 | 172,5 | 10 | 8 | 6 | 8 | 40 | DCH0554500*HSD |
| 5 | 22 | 37 | 32 | 1,2 | 27,5 | - | 34,5 | 172,5 | 9,5 | 7,5 | 5,5 | 8,7 | 44 | DCH0554500*H# |
| 4,7 | 17 | 28 | 42,5 | 1,2 | 37,5 | - | 23,5 | 110,45 | 7 | 5,5 | 4 | 10,6 | 50 | DCH0554470*J# |
| 4,7 | 18 | 33 | 32 | 1,2 | 27,5 | - | 34,5 | 162,15 | 8 | 6,5 | 4,5 | 9 | 43 | DCH0554470*H# |
| 3 | 18 | 33 | 32 | 1,2 | 27,5 | - | 34,5 | 103,5 | 7,5 | 6 | 4 | 11,5 | 35 | DCH0554300*H# |
| 2,5 | 14 | 28 | 32 | 1,2 | 27,5 | - | 34,5 | 86,25 | 6 | 5 | 3,5 | 12,6 | 32 | DCH0554250*H# |
| 2,2 | 15 | 24,5 | 32 | 1 | 27,5 | - | 34,5 | 75,9 | 5 | 4 | 3 | 13,6 | 34 | DCH0554220*H# |
| 2 | 15 | 24,5 | 32 | 1 | 27,5 | - | 34,5 | 69 | 5 | 4 | 3 | 14,8 | 33 | DCH0554200*H# |
| 1,5 | 13 | 22 | 32 | 1 | 27,5 | - | 34,5 | 51,75 | 4,5 | 3,5 | 2,5 | 17,2 | 29 | DCH0554150*H# |

(1) at f = 10kHz÷60kHz for P = 27.5mm, at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; Irms rating for ΔT/Ta (Ta = T ambient) = +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); Irms values, with all terminals connected, are referred to max. tolerance on rated Capacitance = ±10%, for wider C tolerances, ESR variation from typical data and related different power dissipation must be taken in consideration
(2) typical value, with all terminals connected, at f = 10kHz÷60kHz for P = 27.5mm, at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration
(3) change the "*" symbol with the desired capacitance tolerance code (±5% = J; ±10% = K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals
(4) In progress

# DCH / DCS *NEW - In Progress*

MKP • box with multiple radial terminals • high energy density • DC-Link • medium-high current • medium-high frequency • not suitable for AC applications • DCS: high safety version


**DCH060…: Ur = 1100Vdc at +85°C (case); max. admissible voltage at +70°C (case) = 1175Vdc**
**(45x65x42,5mm box in progress)**

| Cn | Dimensions (mm) | | | | | | du/dt | Ipeak | Irms max.[1] | | | ESR[2] | DF MAX. | ICEL CODE[3] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| μF | B | H | L | d | P | P1 | V/μs | A | A (ΔT=+15°C) | A (ΔT=+10°C) | A (ΔT=+5°C) | mΩ | x 10⁻⁴ @10kHz | - |
| 45 | 45 | 65 | 57,5 | 1,2 | 52,5 | 20,3 | 17,5 | 787,5 | 26 | 21 | 15 | 3,4 | 154 | DCH0605450*RSD [4] |
| 40 | 45 | 65 | 57,5 | 1,2 | 52,5 | 10,2 | 17,5 | 700 | 25 | 20,5 | 14,5 | 3,6 | 145 | DCH0605400*RSD [4] |
| 33 | 38 | 57,5 | 57,5 | 1,2 | 52,5 | 20,3 | 17,5 | 577,5 | 21 | 17 | 12 | 4 | 133 | DCH0605330*RSD |
| 30 | 38 | 57,5 | 57,5 | 1,2 | 52,5 | 20,3 | 17,5 | 525 | 20,5 | 16,5 | 11,5 | 4,2 | 127 | DCH0605300*RSD |
| 25 | 35 | 50 | 57,5 | 1,2 | 52,5 | 20,3 | 17,5 | 437,5 | 18 | 14,5 | 10,5 | 4,7 | 118 | DCH0605250*RSD |
| 25 | 35 | 50 | 57,5 | 1,2 | 52,5 | - | 17,5 | 437,5 | 14 | 13,5 | 9,5 | 5,4 | 136 | DCH0605250*R# |
| 22 | 35 | 50 | 57,5 | 1,2 | 52,5 | 20,3 | 17,5 | 385 | 17 | 14 | 10 | 5 | 111 | DCH0605220*RSD |
| 22 | 35 | 50 | 57,5 | 1,2 | 52,5 | - | 17,5 | 385 | 14 | 13 | 9 | 5,7 | 126 | DCH0605220*R# |
| 20 | 30 | 45 | 57,5 | 1,2 | 52,5 | 20,3 | 17,5 | 350 | 15,5 | 12,5 | 9 | 5,3 | 107 | DCH0605200*RSD |
| 20 | 30 | 45 | 57,5 | 1,2 | 52,5 | - | 17,5 | 350 | 14 | 12 | 8,5 | 6 | 121 | DCH0605200*R# |
| 18 | 35 | 50 | 42 | 1,2 | 37,5 | 20,3 | 25 | 450 | 18,5 | 15 | 10,5 | 4,6 | 83 | DCH0605180*JSD |
| 18 | 35 | 50 | 42 | 1,2 | 37,5 | - | 25 | 450 | 14 | 14 | 10 | 5,3 | 96 | DCH0605180*J# |
| 15 | 30 | 45 | 57,5 | 1,2 | 52,5 | 20,3 | 17,5 | 262,5 | 14,5 | 11,5 | 8 | 6,2 | 93 | DCH0605150*RSD |
| 15 | 30 | 45 | 57,5 | 1,2 | 52,5 | - | 17,5 | 262,5 | 13,5 | 11 | 8 | 6,9 | 104 | DCH0605150*R# |
| 15 | 35 | 50 | 42 | 1,2 | 37,5 | 20,3 | 25 | 375 | 17,5 | 14,5 | 10 | 5,1 | 77 | DCH0605150*JSD |
| 15 | 35 | 50 | 42 | 1,2 | 37,5 | - | 25 | 375 | 14 | 13,5 | 9,5 | 5,8 | 87 | DCH0605150*J# |
| 12 | 30 | 45 | 42,5 | 1,2 | 37,5 | 20,3 | 25 | 300 | 14,5 | 11,5 | 8,5 | 5,8 | 70 | DCH0605120*JSD |
| 12 | 30 | 45 | 42,5 | 1,2 | 37,5 | - | 25 | 300 | 13,5 | 11 | 8 | 6,5 | 78 | DCH0605120*J# |
| 10 | 24 | 44 | 41,5 | 1,2 | 37,5 | 10,2 | 25 | 250 | 13,5 | 11 | 8 | 6,4 | 64 | DCH0605100*JSD |
| 10 | 24 | 44 | 41,5 | 1,2 | 37,5 | - | 25 | 250 | 13 | 10,5 | 7,5 | 7,1 | 71 | DCH0605100*J# |
| 8 | 28 | 37 | 42,5 | 1,2 | 37,5 | 10,2 | 25 | 200 | 11,5 | 9,5 | 6,5 | 7,2 | 58 | DCH0604800*JSD |
| 8 | 28 | 37 | 42,5 | 1,2 | 37,5 | - | 25 | 200 | 11 | 9 | 6 | 7,9 | 64 | DCH0604800*J# |
| 8 | 20 | 40 | 41,5 | 1,2 | 37,5 | 10,2 | 25 | 200 | 11,5 | 9,5 | 6,5 | 7,2 | 58 | DCH0604800*JSDA |
| 8 | 20 | 40 | 41,5 | 1,2 | 37,5 | - | 25 | 200 | 11 | 9 | 6,5 | 7,9 | 64 | DCH0604800*J#A |
| 6,8 | 22 | 33,5 | 42,5 | 1,2 | 37,5 | - | 25 | 170 | 9 | 7 | 5 | 8,5 | 58 | DCH0604680*J# |
| 5 | 22 | 30 | 42,5 | 1,2 | 37,5 | - | 25 | 125 | 8 | 6,5 | 4,5 | 9,9 | 50 | DCH0604500*J# |
| 5 | 22 | 37 | 32 | 1,2 | 27,5 | 10,2 | 37,5 | 187,5 | 10,5 | 8,5 | 6 | 7,7 | 39 | DCH0604500*HSD |
| 5 | 22 | 37 | 32 | 1,2 | 27,5 | - | 37,5 | 187,5 | 10 | 8 | 5,5 | 8,4 | 42 | DCH0604500*H# |
| 4,7 | 17 | 32 | 42,5 | 1,2 | 37,5 | - | 25 | 117,5 | 7,5 | 6 | 4,5 | 10,3 | 49 | DCH0604470*J# |
| 4,7 | 22 | 37 | 32 | 1,2 | 27,5 | 10,2 | 37,5 | 176,25 | 10 | 8 | 6 | 8 | 38 | DCH0604470*HSD |
| 4,7 | 22 | 37 | 32 | 1,2 | 27,5 | - | 37,5 | 176,25 | 9,5 | 8 | 5,5 | 8,7 | 41 | DCH0604470*H# |
| 4 | 17 | 28 | 42,5 | 1,2 | 37,5 | - | 25 | 100 | 7 | 5,5 | 4 | 11,2 | 45 | DCH0604400*J# |
| 3,3 | 18 | 33 | 32 | 1,2 | 27,5 | - | 37,5 | 123,75 | 7,5 | 6 | 4 | 10,7 | 35 | DCH0604330*H# |
| 3 | 18 | 33 | 32 | 1,2 | 27,5 | - | 37,5 | 112,5 | 7,5 | 6 | 4,5 | 11,2 | 34 | DCH0604300*H# |
| 2,2 | 14 | 28 | 32 | 1,2 | 27,5 | - | 37,5 | 82,5 | 6 | 5,5 | 3,5 | 13,2 | 29 | DCH0604220*H# |
| 1,5 | 15 | 24,5 | 32 | 1 | 27,5 | - | 37,5 | 56,25 | 4,5 | 3,5 | 2,5 | 16,7 | 28 | DCH0604150*H# |
| 1,2 | 13 | 22 | 32 | 1 | 27,5 | - | 37,5 | 45 | 4 | 3 | 2 | 18,8 | 26 | DCH0604120*H# |
| 1 | 13 | 22 | 32 | 1 | 27,5 | - | 37,5 | 37,5 | 3,5 | 3 | 2 | 20,6 | 23 | DCH0604100*H# |

[1] at f = 10kHz÷60kHz for P = 27.5mm, at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; Irms rating for ΔT/Ta (Ta = T ambient) = +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); Irms values, with all terminals connected, are referred to max. tolerance on rated Capacitance = ±10%, for wider C tolerances, ESR variation from typical data and related different power dissipation must be taken in consideration
[2] typical value, with all terminals connected, at f = 10kHz÷60kHz for P = 27.5mm, at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration
[3] change the "*" symbol with the desired capacitance tolerance code (±5% = J; ±10% = K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals
[4] In progress

MUE CAP
info@muecap.de

# DCH / DCS *NEW - In Progress*

MKP • box with multiple radial terminals • high energy density
• DC-Link • medium-high current • medium-high frequency
• not suitable for AC applications • DCS: high safety version

**DCH070…: Ur = 1300Vdc at +85°C (case); max. admissible voltage at +70°C (case) = 1380Vdc**
**(45x65x42,5mm box in progress)**

| Cn | Dimensions (mm) | | | | | | du/dt | Ipeak | Irms max.(1) | | | ESR(2) | DF MAX. | ICEL CODE(3) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| μF | B | H | L | d | P | P1 | V/μs | A | A (ΔT=+15°C) | A (ΔT=+10°C) | A (ΔT=+5°C) | mΩ | x 10⁻⁴ @10kHz | - |
| 33 | 45 | 65 | 57,5 | 1,2 | 52,5 | 20,3 | 20 | 660 | 25 | 20,5 | 14,5 | 3,7 | 123 | DCH0705330*RSD (4) |
| 30 | 45 | 65 | 57,5 | 1,2 | 52,5 | 20,3 | 20 | 600 | 24 | 19,5 | 14 | 3,9 | 118 | DCH0705300*RSD (4) |
| 22 | 38 | 57,5 | 57,5 | 1,2 | 52,5 | 20,3 | 20 | 440 | 19,5 | 16 | 11,5 | 4,7 | 104 | DCH0705220*RSD |
| 20 | 38 | 57,5 | 57,5 | 1,2 | 52,5 | 20,3 | 20 | 400 | 19 | 15,5 | 11 | 4,9 | 98 | DCH0705200*RSD |
| 18 | 35 | 50 | 57,5 | 1,2 | 52,5 | 20,3 | 20 | 360 | 17 | 14 | 10 | 5,2 | 94 | DCH0705180*RSD |
| 18 | 35 | 50 | 57,5 | 1,2 | 52,5 | - | 20 | 360 | 14 | 13 | 9 | 5,9 | 107 | DCH0705180*R# |
| 15 | 35 | 50 | 57,5 | 1,2 | 52,5 | 20,3 | 20 | 300 | 16 | 13 | 9 | 5,7 | 86 | DCH0705150*RSD |
| 15 | 35 | 50 | 57,5 | 1,2 | 52,5 | - | 20 | 300 | 14 | 12,5 | 9 | 6,4 | 96 | DCH0705150*R# |
| 12 | 30 | 45 | 57,5 | 1,2 | 52,5 | 20,3 | 20 | 240 | 14 | 11,5 | 8 | 6,5 | 78 | DCH0705120*RSD |
| 12 | 30 | 45 | 57,5 | 1,2 | 52,5 | - | 20 | 240 | 13,5 | 11 | 7,5 | 7,2 | 87 | DCH0705120*R# |
| 12 | 35 | 50 | 42 | 1,2 | 37,5 | 20,3 | 30 | 360 | 17 | 14 | 10 | 5,4 | 65 | DCH0705120*JSD |
| 12 | 35 | 50 | 42 | 1,2 | 37,5 | - | 30 | 360 | 14 | 13 | 9 | 6,1 | 74 | DCH0705120*J# |
| 10 | 30 | 45 | 42,5 | 1,2 | 37,5 | 20,3 | 30 | 300 | 14,5 | 12 | 8,5 | 5,9 | 59 | DCH0705100*JSD |
| 10 | 30 | 45 | 42,5 | 1,2 | 37,5 | - | 30 | 300 | 13,5 | 11 | 8 | 6,6 | 66 | DCH0705100*J# |
| 8 | 24 | 44 | 41,5 | 1,2 | 37,5 | 10,2 | 30 | 240 | 12,5 | 10 | 7 | 7,4 | 59 | DCH0704800*JSD |
| 8 | 24 | 44 | 41,5 | 1,2 | 37,5 | - | 30 | 240 | 12,5 | 10 | 7 | 7,4 | 59 | DCH0704800*J# |
| 6,8 | 28 | 37 | 42,5 | 1,2 | 37,5 | 10,2 | 30 | 204 | 11 | 9 | 6,5 | 7,3 | 50 | DCH0704680*JSD |
| 6,8 | 28 | 37 | 42,5 | 1,2 | 37,5 | - | 30 | 204 | 10,5 | 8,5 | 6 | 8 | 55 | DCH0704680*J# |
| 6 | 20 | 40 | 41,5 | 1,2 | 37,5 | 10,2 | 30 | 180 | 11 | 9 | 6,5 | 7,8 | 47 | DCH0704600*JSD |
| 6 | 20 | 40 | 41,5 | 1,2 | 37,5 | - | 30 | 180 | 10,5 | 8,5 | 6 | 8,5 | 51 | DCH0704600*J# |
| 5 | 22 | 33,5 | 42,5 | 1,2 | 37,5 | - | 30 | 150 | 8,5 | 7 | 5 | 9,3 | 47 | DCH0704500*J# |
| 4,7 | 22 | 33,5 | 42,5 | 1,2 | 37,5 | - | 30 | 141 | 8,5 | 7 | 5 | 9,6 | 45 | DCH0704470*J# |
| 4 | 22 | 30 | 42,5 | 1,2 | 37,5 | - | 30 | 120 | 7,5 | 6 | 4,5 | 10,5 | 42 | DCH0704400*J# |
| 3,3 | 17 | 32 | 42,5 | 1,2 | 37,5 | - | 30 | 99 | 7,5 | 6 | 4 | 11,6 | 38 | DCH0704330*J# |
| 3,3 | 22 | 37 | 32 | 1,2 | 27,5 | 10,2 | 45 | 148,5 | 9,5 | 8 | 5,5 | 9,2 | 31 | DCH0704330*HSD |
| 3,3 | 22 | 37 | 32 | 1,2 | 27,5 | - | 45 | 148,5 | 9 | 7,5 | 5 | 9,9 | 33 | DCH0704330*H# |
| 3 | 17 | 28 | 42,5 | 1,2 | 37,5 | - | 30 | 90 | 6,5 | 5 | 3,5 | 12,2 | 37 | DCH0704300*J# |
| 3 | 22 | 37 | 32 | 1,2 | 27,5 | 10,2 | 45 | 135 | 9 | 7,5 | 5 | 9,7 | 29 | DCH0704300*HSD |
| 3 | 22 | 37 | 32 | 1,2 | 27,5 | - | 45 | 135 | 9 | 7,5 | 5 | 10,4 | 31 | DCH0704300*H# |
| 2,5 | 17 | 28 | 42,5 | 1,2 | 37,5 | - | 30 | 75 | 6,5 | 5,5 | 3,5 | 13,3 | 33 | DCH0704250*J# |
| 2,5 | 18 | 33 | 32 | 1,2 | 27,5 | - | 45 | 112,5 | 7,5 | 6 | 4,5 | 11,4 | 29 | DCH0704250*H# |
| 2,2 | 18 | 33 | 32 | 1,2 | 27,5 | - | 45 | 99 | 7 | 5,5 | 4 | 12,2 | 27 | DCH0704220*H# |
| 1,5 | 14 | 28 | 32 | 1,2 | 27,5 | - | 45 | 67,5 | 5,5 | 4,5 | 3 | 14,8 | 22 | DCH0704150*H# |
| 1,2 | 15 | 24,5 | 32 | 1 | 27,5 | - | 45 | 54 | 4,5 | 3,5 | 2,5 | 17,4 | 24 | DCH0704120*H# |
| 1 | 13 | 22 | 32 | 1 | 27,5 | - | 45 | 45 | 4 | 3 | 2 | 19,1 | 22 | DCH0704100*H# |

(1) at f = 10kHz÷60kHz for P = 27.5mm, at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; Irms rating for ΔT/Ta (Ta = T ambient) = +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); Irms values, with all terminals connected, are referred to max. tolerance on rated Capacitance = ±10%, for wider C tolerances, ESR variation from typical data and related different power dissipation must be taken in consideration
(2) typical value, with all terminals connected, at f = 10kHz÷60kHz for P = 27.5mm, at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration
(3) change the "*" symbol with the desired capacitance tolerance code (±5% = J; ±10% = K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals
(4) In progress

MUE CAP
info@muecap.de

# DCH / DCS *NEW - In Progress*

MKP • box with multiple radial terminals • high energy density • DC-Link • medium-high current • medium-high frequency • not suitable for AC applications • DCS: high safety version


**DCH080…: Ur = 1500Vdc at +85°C (case); max. admissible voltage at +70°C (case) = 1585Vdc**
**(45x65x42,5mm box in progress)**

| Cn | Dimensions (mm) | | | | | | du/dt | Ipeak | Irms max.(1) | | | ESR(2) | DF MAX. | ICEL CODE(3) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| µF | B | H | L | d | P | P1 | V/µs | A | A (ΔT=+15°C) | A (ΔT=+10°C) | A (ΔT=+5°C) | mΩ | x $10^{-4}$ @10kHz | - |
| 25 | 45 | 65 | 57,5 | 1,2 | 52,5 | 20,3 | 23 | 575 | 21,5 | 17,5 | 12,5 | 5 | 126 | DCH0805250*RSD (4) |
| 22 | 45 | 65 | 57,5 | 1,2 | 52,5 | 20,3 | 23 | 506 | 20,5 | 16,5 | 12 | 5,4 | 119 | DCH0805220*RSD (4) |
| 18 | 38 | 57,5 | 57,5 | 1,2 | 52,5 | 20,3 | 23 | 414 | 19 | 15,5 | 11 | 4,9 | 89 | DCH0805180*RSD |
| 15 | 38 | 57,5 | 57,5 | 1,2 | 52,5 | 20,3 | 23 | 345 | 18 | 14,5 | 10,5 | 5,4 | 81 | DCH0805150*RSD |
| 12 | 35 | 50 | 57,5 | 1,2 | 52,5 | 20,3 | 23 | 276 | 16 | 13 | 9 | 6 | 72 | DCH0805120*RSD |
| 12 | 35 | 50 | 57,5 | 1,2 | 52,5 | - | 23 | 276 | 14 | 12 | 8,5 | 6,7 | 81 | DCH0805120*R# |
| 10 | 30 | 45 | 57,5 | 1,2 | 52,5 | 20,3 | 23 | 230 | 14 | 11,5 | 8 | 6,6 | 66 | DCH0805100*RSD |
| 10 | 30 | 45 | 57,5 | 1,2 | 52,5 | - | 23 | 230 | 13 | 10,5 | 7,5 | 7,3 | 73 | DCH0805100*R# |
| 10 | 35 | 50 | 42 | 1,2 | 37,5 | 20,3 | 34 | 340 | 14 | 11 | 8 | 8,4 | 84 | DCH0805100*JSD |
| 10 | 35 | 50 | 42 | 1,2 | 37,5 | - | 34 | 340 | 13 | 10,5 | 7,5 | 9,1 | 91 | DCH0805100*J# |
| 7,5 | 30 | 45 | 42,5 | 1,2 | 37,5 | 20,3 | 34 | 255 | 13 | 10,5 | 7,5 | 7,1 | 54 | DCH0804750*JSD |
| 7,5 | 30 | 45 | 42,5 | 1,2 | 37,5 | - | 34 | 255 | 12,5 | 10 | 7 | 7,8 | 59 | DCH0804750*J# |
| 6,8 | 30 | 45 | 42,5 | 1,2 | 37,5 | 20,3 | 34 | 231,2 | 12,5 | 10 | 7 | 7,5 | 51 | DCH0804680*JSD |
| 6,8 | 30 | 45 | 42,5 | 1,2 | 37,5 | - | 34 | 231,2 | 12 | 10 | 7 | 8,2 | 56 | DCH0804680*J# |
| 6 | 24 | 44 | 41,5 | 1,2 | 37,5 | 10,2 | 34 | 204 | 12,5 | 10 | 7 | 7,2 | 43 | DCH0804600*JSD |
| 6 | 24 | 44 | 41,5 | 1,2 | 37,5 | - | 34 | 204 | 12 | 10 | 7 | 7,9 | 48 | DCH0804600*J# |
| 5 | 28 | 37 | 42,5 | 1,2 | 37,5 | 10,2 | 34 | 170 | 11 | 9 | 6,5 | 7,9 | 40 | DCH0804500*JSD |
| 5 | 28 | 37 | 42,5 | 1,2 | 37,5 | - | 34 | 170 | 10,5 | 8,5 | 6 | 8,6 | 43 | DCH0804500*J# |
| 4,7 | 28 | 37 | 42,5 | 1,2 | 37,5 | 10,2 | 34 | 159,8 | 10,5 | 8,5 | 6 | 8,2 | 39 | DCH0804470*JSD |
| 4,7 | 28 | 37 | 42,5 | 1,2 | 37,5 | - | 34 | 159,8 | 10 | 8 | 6 | 8,9 | 42 | DCH0804470*J# |
| 4,7 | 20 | 40 | 41,5 | 1,2 | 37,5 | 10,2 | 34 | 159,8 | 10,5 | 8,5 | 6 | 8,2 | 39 | DCH0804470*JSDA |
| 4,7 | 20 | 40 | 41,5 | 1,2 | 37,5 | - | 34 | 159,8 | 10 | 8 | 6 | 8,9 | 42 | DCH0804470*J#A |
| 4 | 20 | 40 | 41,5 | 1,2 | 37,5 | 10,2 | 34 | 136 | 10 | 8 | 6 | 9 | 36 | DCH0804400*JSD |
| 4 | 20 | 40 | 41,5 | 1,2 | 37,5 | - | 34 | 136 | 9,5 | 7,5 | 5,5 | 9,7 | 39 | DCH0804400*J# |
| 3,3 | 22 | 33,5 | 42,5 | 1,2 | 37,5 | - | 34 | 112,2 | 8 | 6,5 | 4,5 | 10,7 | 35 | DCH0804330*J# |
| 3 | 22 | 30 | 42,5 | 1,2 | 37,5 | - | 34 | 102 | 7,5 | 6 | 4,5 | 11,2 | 34 | DCH0804300*J# |
| 3 | 22 | 37 | 32 | 1,2 | 27,5 | 10,2 | 52 | 156 | 9,5 | 7,5 | 5,5 | 8,9 | 27 | DCH0804300*HSD |
| 3 | 22 | 37 | 32 | 1,2 | 27,5 | - | 52 | 156 | 9 | 7 | 5 | 9,6 | 29 | DCH0804300*H# |
| 2,5 | 17 | 32 | 42,5 | 1,2 | 37,5 | - | 34 | 85 | 7 | 5,5 | 4 | 12,3 | 31 | DCH0804250*J# |
| 2,5 | 22 | 37 | 32 | 1,2 | 27,5 | 10,2 | 52 | 130 | 9 | 7 | 5 | 9,8 | 25 | DCH0804250*HSD |
| 2,5 | 22 | 37 | 32 | 1,2 | 27,5 | - | 52 | 130 | 9 | 7 | 5 | 10,5 | 26 | DCH0804250*H# |
| 2,2 | 17 | 28 | 42,5 | 1,2 | 37,5 | - | 34 | 74,8 | 6,5 | 5,5 | 4 | 13,1 | 29 | DCH0804220*J# |
| 2,2 | 22 | 37 | 32 | 1,2 | 27,5 | 10,2 | 52 | 114,4 | 8,5 | 7 | 5 | 10,5 | 23 | DCH0804220*HSD |
| 2,2 | 22 | 37 | 32 | 1,2 | 27,5 | - | 52 | 114,4 | 8,5 | 7 | 5 | 11,2 | 25 | DCH0804220*H# |
| 2 | 18 | 33 | 32 | 1,2 | 27,5 | - | 52 | 104 | 7 | 6 | 4 | 11,8 | 24 | DCH0804200*H# |
| 1,5 | 18 | 33 | 32 | 1,2 | 27,5 | - | 52 | 78 | 6,5 | 5,5 | 3,5 | 13,6 | 20 | DCH0804150*H# |
| 1,2 | 14 | 28 | 32 | 1,2 | 27,5 | - | 52 | 62,4 | 5,5 | 4,5 | 3 | 15,2 | 18 | DCH0804120*H# |
| 1 | 15 | 24,5 | 32 | 1 | 27,5 | - | 52 | 52 | 4,5 | 3,5 | 2,5 | 17,4 | 20 | DCH0804100*H# |
| 0,82 | 13 | 22 | 32 | 1 | 27,5 | - | 52 | 42,64 | 4 | 3,5 | 2,5 | 19,2 | 18 | DCH0803820*H# |
| 0,68 | 13 | 22 | 32 | 1 | 27,5 | - | 52 | 35,36 | 4 | 3 | 2 | 21,1 | 16 | DCH0803680*H# |

(1) at f = 10kHz÷60kHz for P = 27.5mm, at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; Irms rating for ΔT/Ta (Ta = T ambient) = +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); Irms values, with all terminals connected, are referred to max. tolerance on rated Capacitance = ±10%, for wider C tolerances, ESR variation from typical data and related different power dissipation must be taken in consideration

(2) typical value, with all terminals connected, at f = 10kHz÷60kHz for P = 27.5mm, at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration

(3) change the "*" symbol with the desired capacitance tolerance code (±5% = J; ±10% = K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals

(4) In progress

MUE CAP
info@muecap.de

# DCH / DCS *NEW - In Progress*

MKP • box with multiple radial terminals • high energy density
• DC-Link • medium-high current • medium-high frequency
• not suitable for AC applications • DCS: high safety version


**[^]DCS030…: Ur = 470Vdc at +85°C (case); max. admissible voltage at +70°C (case) = 500Vdc**
**(45x65x42,5mm box in progress)**

| Cn | Dimensions (mm) | | | | | | du/dt | Ipeak | Irms max.[1] | | | ESR[2] | DF MAX. | ICEL CODE[3] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| µF | B | H | L | d | P | P1 | V/µs | A | A (ΔT=+15°C) | A (ΔT=+10°C) | A (ΔT=+5°C) | mΩ | x $10^{-4}$ @10kHz | - |
| 150 | 45 | 65 | 57,5 | 1,2 | 52,5 | 20,3 | 8 | 1200 | 27 | 22 | 15,5 | 3,1 | 467 | DCS0306150*RSD [4] |
| 110 | 38 | 57,5 | 57,5 | 1,2 | 52,5 | 20,3 | 8 | 880 | 21,5 | 17,5 | 12,5 | 3,9 | 431 | DCS0306110*RSD |
| 85 | 35 | 50 | 57,5 | 1,2 | 52,5 | 20,3 | 8 | 680 | 18,5 | 15 | 10,5 | 4,5 | 384 | DCS0305850*RSD |
| 85 | 35 | 50 | 57,5 | 1,2 | 52,5 | - | 8 | 680 | 14 | 14 | 10 | 5,2 | 444 | DCS0305850*R# |
| 65 | 30 | 45 | 57,5 | 1,2 | 52,5 | 20,3 | 8 | 520 | 16 | 13 | 9 | 5,2 | 340 | DCS0305650*RSD |
| 65 | 30 | 45 | 57,5 | 1,2 | 52,5 | - | 8 | 520 | 14 | 12 | 8,5 | 5,9 | 385 | DCS0305650*R# |
| 57,5 | 35 | 50 | 42 | 1,2 | 37,5 | 20,3 | 12 | 690 | 19 | 15,5 | 11 | 4,5 | 260 | DCS0305575*JSD |
| 57,5 | 35 | 50 | 42 | 1,2 | 37,5 | - | 12 | 690 | 14 | 14 | 10 | 5,2 | 300 | DCS0305575*J# |
| 45 | 30 | 45 | 42,5 | 1,2 | 37,5 | 20,3 | 12 | 540 | 15 | 12 | 8,5 | 5,3 | 240 | DCS0305450*JSD |
| 45 | 30 | 45 | 42,5 | 1,2 | 37,5 | - | 12 | 540 | 14 | 11,5 | 8 | 6 | 271 | DCS0305450*J# |
| 35 | 24 | 44 | 41,5 | 1,2 | 37,5 | 10,2 | 12 | 420 | 14 | 11,5 | 8 | 6 | 211 | DCS0305350*JSD |
| 35 | 24 | 44 | 41,5 | 1,2 | 37,5 | - | 12 | 420 | 13 | 10,5 | 7,5 | 6,7 | 236 | DCS0305350*J# |
| 33 | 28 | 37 | 42,5 | 1,2 | 37,5 | 10,2 | 12 | 396 | 12 | 10 | 7 | 6,3 | 209 | DCS0305330*JSD |
| 33 | 28 | 37 | 42,5 | 1,2 | 37,5 | - | 12 | 396 | 11,5 | 9,5 | 6,5 | 7 | 232 | DCS0305330*J# |
| 25 | 20 | 40 | 41,5 | 1,2 | 37,5 | 10,2 | 12 | 300 | 11,5 | 9,5 | 6,5 | 7,3 | 183 | DCS0305250*JSD |
| 25 | 20 | 40 | 41,5 | 1,2 | 37,5 | - | 12 | 300 | 11 | 9 | 6 | 8 | 201 | DCS0305250*J# |
| 22 | 22 | 33,5 | 42,5 | 1,2 | 37,5 | - | 12 | 264 | 9 | 7,5 | 5,5 | 8,6 | 190 | DCS0305220*J# |
| 18 | 22 | 30 | 42,5 | 1,2 | 37,5 | - | 12 | 216 | 8,5 | 7 | 5 | 9,1 | 165 | DCS0305180*J# |
| 15 | 17 | 32 | 42,5 | 1,2 | 37,5 | - | 12 | 180 | 7,5 | 6 | 4,5 | 10,4 | 157 | DCS0305150*J# |
| 12 | 17 | 28 | 42,5 | 1,2 | 37,5 | - | 12 | 144 | 6,5 | 5,5 | 3,5 | 11,8 | 142 | DCS0305120*J# |

[1] at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; Irms rating for ΔT/Ta (Ta = T ambient) = +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); Irms values, with all terminals connected, are referred to max. tolerance on rated Capacitance = ±10%, for wider C tolerances, ESR variation from typical data and related different power dissipation must be taken in consideration
[2] typical value, with all terminals connected, at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration
[3] change the "*" symbol with the desired capacitance tolerance code (±5% = J; ±10% = K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals
[4] In progress
[^] Available upon request

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info@muecap.de

# DCH / DCS *NEW - In Progress*

MKP • box with multiple radial terminals • high energy density
• DC-Link • medium-high current • medium-high frequency
• not suitable for AC applications • DCS: high safety version


**[^]DCS035…: Ur = 600Vdc at +85°C (case); max. admissible voltage at +70°C (case) = 640Vdc**
**(45x65x42,5mm box in progress)**

| Cn | Dimensions (mm) | | | | | | du/dt | Ipeak | Irms max.[1] | | | ESR[2] | DF MAX. | ICEL CODE[3] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| µF | B | H | L | d | P | P1 | V/µs | A | A (ΔT=+15°C) | A (ΔT=+10°C) | A (ΔT=+5°C) | mΩ | x $10^{-4}$ @10kHz | - |
| 115 | 45 | 65 | 57,5 | 1,2 | 52,5 | 20,3 | 10 | 1150 | 26,5 | 21,5 | 15 | 3,3 | 381 | DCS0356115*RSD [4] |
| 85 | 38 | 57,5 | 57,5 | 1,2 | 52,5 | 20,3 | 10 | 850 | 21,5 | 17,5 | 12,5 | 3,9 | 333 | DCS0355850*RSD |
| 68 | 35 | 50 | 57,5 | 1,2 | 52,5 | 20,3 | 10 | 680 | 18,5 | 15 | 10,5 | 4,5 | 307 | DCS0355680*RSD |
| 68 | 35 | 50 | 57,5 | 1,2 | 52,5 | - | 10 | 680 | 14 | 14 | 10 | 5,2 | 355 | DCS0355680*R# |
| 47 | 30 | 45 | 57,5 | 1,2 | 52,5 | 20,3 | 10 | 470 | 16,5 | 13,5 | 9,5 | 4,6 | 217 | DCS0355470*RSD |
| 47 | 30 | 45 | 57,5 | 1,2 | 52,5 | - | 10 | 470 | 14 | 12,5 | 9 | 5,3 | 250 | DCS0355470*R# |
| 45 | 35 | 50 | 42 | 1,2 | 37,5 | 20,3 | 15 | 675 | 19 | 15,5 | 11 | 4,5 | 203 | DCS0355450*JSD |
| 45 | 35 | 50 | 42 | 1,2 | 37,5 | - | 15 | 675 | 14 | 14 | 10 | 5,2 | 235 | DCS0355450*J# |
| 33 | 30 | 45 | 42,5 | 1,2 | 37,5 | 20,3 | 15 | 495 | 15 | 12 | 8,5 | 5,5 | 182 | DCS0355330*JSD |
| 33 | 30 | 45 | 42,5 | 1,2 | 37,5 | - | 15 | 495 | 14 | 11,5 | 8 | 6,2 | 206 | DCS0355330*J# |
| 25 | 24 | 44 | 41,5 | 1,2 | 37,5 | 10,2 | 15 | 375 | 13,5 | 11 | 7,5 | 6,4 | 161 | DCS0355250*JSD |
| 25 | 24 | 44 | 41,5 | 1,2 | 37,5 | - | 15 | 375 | 12,5 | 10 | 7 | 7,1 | 178 | DCS0355250*J# |
| 25 | 28 | 37 | 42,5 | 1,2 | 37,5 | 10,2 | 15 | 375 | 12 | 10 | 7 | 6,4 | 161 | DCS0355250*JSDA |
| 25 | 28 | 37 | 42,5 | 1,2 | 37,5 | - | 15 | 375 | 11,5 | 9,5 | 6,5 | 7,1 | 178 | DCS0355250*J#A |
| 18 | 20 | 40 | 41,5 | 1,2 | 37,5 | 10,2 | 15 | 270 | 11 | 9 | 6,5 | 7,7 | 139 | DCS0355180*JSD |
| 18 | 20 | 40 | 41,5 | 1,2 | 37,5 | - | 15 | 270 | 10,5 | 8,5 | 6 | 8,4 | 152 | DCS0355180*J# |
| 15 | 22 | 33,5 | 42,5 | 1,2 | 37,5 | - | 15 | 225 | 8,5 | 7 | 5 | 9,3 | 140 | DCS0355150*J# |
| 12 | 17 | 32 | 42,5 | 1,2 | 37,5 | - | 15 | 180 | 7,5 | 6 | 4,5 | 10,3 | 124 | DCS0355120*J# |
| 10 | 17 | 28 | 42,5 | 1,2 | 37,5 | - | 15 | 150 | 7 | 5,5 | 4 | 11,3 | 114 | DCS0355100*J# |

[1] at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; Irms rating for ΔT/Ta (Ta = T ambient) = +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); Irms values, with all terminals connected, are referred to max. tolerance on rated Capacitance = ±10%, for wider C tolerances, ESR variation from typical data and related different power dissipation must be taken in consideration
[2] typical value, with all terminals connected, at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration
[3] change the "*" symbol with the desired capacitance tolerance code (±5% = J; ±10% = K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals
[4] In progress
[^] Available upon request

# DCH / DCS *NEW - In Progress*

MUE CAP
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MKP • box with multiple radial terminals • high energy density
• DC-Link • medium-high current • medium-high frequency
• not suitable for AC applications • DCS: high safety version


**[^]DCS040…: Ur = 700Vdc at +85°C (case); max. admissible voltage at +70°C (case) = 750Vdc**
**(45x65x42,5mm box in progress)**

| Cn | Dimensions (mm) | | | | | | du/dt | Ipeak | Irms max.[1] | | | ESR[2] | DF MAX. | ICEL CODE[3] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| μF | B | H | L | d | P | P1 | V/μs | A | A (ΔT=+15°C) | A (ΔT=+10°C) | A (ΔT=+5°C) | mΩ | x $10^{-4}$ @10kHz | - |
| 90 | 45 | 65 | 57,5 | 1,2 | 52,5 | 20,3 | 11,5 | 1035 | 26 | 21 | 15 | 3,4 | 307 | DCS0405900*RSD [4] |
| 70 | 38 | 57,5 | 57,5 | 1,2 | 52,5 | 20,3 | 11,5 | 805 | 21 | 17 | 12 | 4,1 | 288 | DCS0405700*RSD |
| 55 | 35 | 50 | 57,5 | 1,2 | 52,5 | 20,3 | 11,5 | 632,5 | 18 | 14,5 | 10,5 | 4,7 | 260 | DCS0405550*RSD |
| 55 | 35 | 50 | 57,5 | 1,2 | 52,5 | - | 11,5 | 632,5 | 14 | 13,5 | 9,5 | 5,4 | 298 | DCS0405550*R# |
| 40 | 30 | 45 | 57,5 | 1,2 | 52,5 | 20,3 | 11,5 | 460 | 15 | 12 | 8,5 | 5,7 | 229 | DCS0405400*RSD |
| 40 | 30 | 45 | 57,5 | 1,2 | 52,5 | - | 11,5 | 460 | 14 | 11,5 | 8 | 6,4 | 257 | DCS0405400*R# |
| 37,5 | 35 | 50 | 42 | 1,2 | 37,5 | 20,3 | 16,5 | 618,75 | 18,5 | 15 | 10,5 | 4,8 | 181 | DCS0405375*JSD |
| 37,5 | 35 | 50 | 42 | 1,2 | 37,5 | - | 16,5 | 618,75 | 14 | 14 | 10 | 5,5 | 207 | DCS0405375*J# |
| 27 | 30 | 45 | 42,5 | 1,2 | 37,5 | 20,3 | 16,5 | 445,5 | 14,5 | 12 | 8,5 | 5,8 | 157 | DCS0405270*JSD |
| 27 | 30 | 45 | 42,5 | 1,2 | 37,5 | - | 16,5 | 445,5 | 13,5 | 11 | 8 | 6,5 | 176 | DCS0405270*J# |
| 22 | 24 | 44 | 41,5 | 1,2 | 37,5 | 10,2 | 16,5 | 363 | 13 | 10,5 | 7,5 | 6,6 | 146 | DCS0405220*JSD |
| 22 | 24 | 44 | 41,5 | 1,2 | 37,5 | - | 16,5 | 363 | 12,5 | 10 | 7 | 7,3 | 161 | DCS0405220*J# |
| 20 | 28 | 37 | 42,5 | 1,2 | 37,5 | 10,2 | 16,5 | 330 | 11,5 | 9,5 | 6,5 | 6,8 | 137 | DCS0405200*JSD |
| 20 | 28 | 37 | 42,5 | 1,2 | 37,5 | - | 16,5 | 330 | 11 | 9 | 6,5 | 7,5 | 151 | DCS0405200*J# |
| 15 | 20 | 40 | 41,5 | 1,2 | 37,5 | 10,2 | 16,5 | 247,5 | 10,5 | 8,5 | 6 | 8,1 | 122 | DCS0405150*JSD |
| 15 | 20 | 40 | 41,5 | 1,2 | 37,5 | - | 16,5 | 247,5 | 10 | 8 | 6 | 8,8 | 133 | DCS0405150*J# |
| 12,5 | 22 | 33,5 | 42,5 | 1,2 | 37,5 | - | 16,5 | 206,25 | 8,5 | 6,5 | 5 | 10,2 | 128 | DCS0405125*J# |
| 10 | 22 | 30 | 42,5 | 1,2 | 37,5 | - | 16,5 | 165 | 7,5 | 6 | 4,5 | 10,9 | 110 | DCS0405100*J# |
| 9 | 17 | 32 | 42,5 | 1,2 | 37,5 | - | 16,5 | 148,5 | 7 | 5,5 | 4 | 11,5 | 104 | DCS0404900*J# |
| 8 | 17 | 28 | 42,5 | 1,2 | 37,5 | - | 16,5 | 132 | 6,5 | 5 | 3,5 | 12,2 | 98 | DCS0404800*J# |

[1] at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; Irms rating for ΔT/Ta (Ta = T ambient) = +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); Irms values, with all terminals connected, are referred to max. tolerance on rated Capacitance = ±10%, for wider C tolerances, ESR variation from typical data and related different power dissipation must be taken in consideration
[2] typical value, with all terminals connected, at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration
[3] change the "*" symbol with the desired capacitance tolerance code (±5% = J; ±10% = K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals
[4] In progress
[^] Available upon request

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# DCH / DCS *NEW - In Progress*

MKP • box with multiple radial terminals • high energy density • DC-Link • medium-high current • medium-high frequency • not suitable for AC applications • DCS: high safety version


**[^]DCS045…: Ur = 800Vdc at +85°C (case); max. admissible voltage at +70°C (case) = 855Vdc**
**(45x65x42,5mm box in progress)**

| Cn | Dimensions (mm) | | | | | | du/dt | Ipeak | Irms max.[1] | | | ESR[2] | DF MAX. | ICEL CODE[3] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| μF | B | H | L | d | P | P1 | V/μs | A | A (ΔT=+15°C) | A (ΔT=+10°C) | A (ΔT=+5°C) | mΩ | x 10⁻⁴ @10kHz | - |
| 75 | 45 | 65 | 57,5 | 1,2 | 52,5 | 20,3 | 13 | 975 | 25 | 20,5 | 14,5 | 3,6 | 271 | DCS0455750*RSD [4] |
| 57,5 | 38 | 57,5 | 57,5 | 1,2 | 52,5 | 20,3 | 13 | 747,5 | 20,5 | 16,5 | 11,5 | 4,2 | 243 | DCS0455575*RSD |
| 42,5 | 35 | 50 | 57,5 | 1,2 | 52,5 | 20,3 | 13 | 552,5 | 17,5 | 14 | 10 | 5 | 214 | DCS0455425*RSD |
| 42,5 | 35 | 50 | 57,5 | 1,2 | 52,5 | - | 13 | 552,5 | 14 | 13 | 9,5 | 5,7 | 243 | DCS0455425*R# |
| 30 | 30 | 45 | 57,5 | 1,2 | 52,5 | 20,3 | 13 | 390 | 15 | 12 | 8,5 | 5,9 | 178 | DCS0455300*RSD |
| 30 | 30 | 45 | 57,5 | 1,2 | 52,5 | - | 13 | 390 | 14 | 11,5 | 8 | 6,6 | 199 | DCS0455300*R# |
| 30 | 35 | 50 | 42 | 1,2 | 37,5 | 20,3 | 18,5 | 555 | 17,5 | 14,5 | 10 | 5,1 | 154 | DCS0455300*JSD |
| 30 | 35 | 50 | 42 | 1,2 | 37,5 | - | 18,5 | 555 | 16,5 | 13,5 | 9,5 | 5,8 | 175 | DCS0455300*J# |
| 22 | 30 | 45 | 42,5 | 1,2 | 37,5 | 20,3 | 18,5 | 407 | 14 | 11,5 | 8 | 6,1 | 135 | DCS0455220*JSD |
| 22 | 30 | 45 | 42,5 | 1,2 | 37,5 | - | 18,5 | 407 | 13,5 | 11 | 7,5 | 6,8 | 150 | DCS0455220*J# |
| 17,5 | 24 | 44 | 41,5 | 1,2 | 37,5 | 10,2 | 18,5 | 323,75 | 13 | 10,5 | 7,5 | 6,8 | 120 | DCS0455175*JSD |
| 17,5 | 24 | 44 | 41,5 | 1,2 | 37,5 | - | 18,5 | 323,75 | 12,5 | 10 | 7 | 7,5 | 132 | DCS0455175*J# |
| 15 | 28 | 37 | 42,5 | 1,2 | 37,5 | 10,2 | 18,5 | 277,5 | 11 | 9 | 6,5 | 7,5 | 113 | DCS0455150*JSD |
| 15 | 28 | 37 | 42,5 | 1,2 | 37,5 | - | 18,5 | 277,5 | 10,5 | 8,5 | 6 | 8,2 | 124 | DCS0455150*J# |
| 12,5 | 20 | 40 | 41,5 | 1,2 | 37,5 | 10,2 | 18,5 | 231,25 | 10,5 | 8,5 | 6 | 8,7 | 109 | DCS0455125*JSD |
| 12,5 | 20 | 40 | 41,5 | 1,2 | 37,5 | - | 18,5 | 231,25 | 10 | 8 | 6 | 9,4 | 118 | DCS0455125*J# |
| 10 | 22 | 33,5 | 42,5 | 1,2 | 37,5 | - | 18,5 | 185 | 8,5 | 6,5 | 5 | 10,2 | 102 | DCS0455100*J# |
| 7,5 | 17 | 32 | 42,5 | 1,2 | 37,5 | - | 18,5 | 138,75 | 7 | 6 | 4 | 11,8 | 89 | DCS0455750*J# |
| 6 | 17 | 28 | 42,5 | 1,2 | 37,5 | - | 18,5 | 111 | 6,5 | 5 | 3,5 | 13,2 | 80 | DCS0454600*J# |

[1] at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; Irms rating for ΔT/Ta (Ta = T ambient) = +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); Irms values, with all terminals connected, are referred to max. tolerance on rated Capacitance = ±10%, for wider C tolerances, ESR variation from typical data and related different power dissipation must be taken in consideration
[2] typical value, with all terminals connected, at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration
[3] change the "*" symbol with the desired capacitance tolerance code (±5% = J; ±10% = K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals
[4] In progress
[^] Available upon request

# DCH / DCS *NEW - In Progress*

MKP • box with multiple radial terminals • high energy density
• DC-Link • medium-high current • medium-high frequency
• not suitable for AC applications • DCS: high safety version


**[^]DCS050…: Ur = 900Vdc at +85°C (case); max. admissible voltage at +70°C (case) = 965Vdc**
**(45x65x42,5mm box in progress)**

| Cn | Dimensions (mm) | | | | | | du/dt | Ipeak | Irms max.[1] | | | ESR[2] | DF MAX. | ICEL CODE[3] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| μF | B | H | L | d | P | P1 | V/μs | A | A (ΔT=+15°C) | A (ΔT=+10°C) | A (ΔT=+5°C) | mΩ | x 10⁻⁴ @10kHz | - |
| 60 | 45 | 65 | 57,5 | 1,2 | 52,5 | 20,3 | 14 | 840 | 24,5 | 20 | 14 | 3,9 | 235 | DCS0505600*RSD [4] |
| 45 | 38 | 57,5 | 57,5 | 1,2 | 52,5 | 20,3 | 14 | 630 | 20 | 16,5 | 11,5 | 4,4 | 199 | DCS0505450*RSD |
| 33 | 35 | 50 | 57,5 | 1,2 | 52,5 | 20,3 | 14 | 462 | 16,5 | 13,5 | 9,5 | 5,4 | 179 | DCS0505330*RSD |
| 33 | 35 | 50 | 57,5 | 1,2 | 52,5 | - | 14 | 462 | 14 | 12,5 | 9 | 6,1 | 202 | DCS0505330*R# |
| 25 | 30 | 45 | 57,5 | 1,2 | 52,5 | 20,3 | 14 | 350 | 14,5 | 11,5 | 8,5 | 6,3 | 158 | DCS0505250*RSD |
| 25 | 30 | 45 | 57,5 | 1,2 | 52,5 | - | 14 | 350 | 13,5 | 11 | 8 | 7 | 176 | DCS0505250*R# |
| 22 | 35 | 50 | 42 | 1,2 | 37,5 | 20,3 | 21 | 462 | 17 | 13,5 | 9,5 | 5,7 | 126 | DCS0505220*JSD |
| 22 | 35 | 50 | 42 | 1,2 | 37,5 | - | 21 | 462 | 14 | 12,5 | 9 | 6,4 | 141 | DCS0505220*J# |
| 17,5 | 30 | 45 | 42,5 | 1,2 | 37,5 | 20,3 | 21 | 367,5 | 14 | 11,5 | 8 | 6,3 | 111 | DCS0505175*JSD |
| 17,5 | 30 | 45 | 42,5 | 1,2 | 37,5 | - | 21 | 367,5 | 13 | 10,5 | 7,5 | 7 | 123 | DCS0505175*J# |
| 13,5 | 24 | 44 | 41,5 | 1,2 | 37,5 | 10,2 | 21 | 283,5 | 12,5 | 10 | 7 | 7,3 | 99 | DCS0505135*JSD |
| 13,5 | 24 | 44 | 41,5 | 1,2 | 37,5 | - | 21 | 283,5 | 12 | 9,5 | 7 | 8 | 109 | DCS0505135*J# |
| 12,5 | 28 | 37 | 42,5 | 1,2 | 37,5 | 10,2 | 21 | 262,5 | 11 | 9 | 6 | 7,8 | 98 | DCS0505125*JSD |
| 12,5 | 28 | 37 | 42,5 | 1,2 | 37,5 | - | 21 | 262,5 | 10,5 | 8,5 | 6 | 8,5 | 107 | DCS0505125*J# |
| 10 | 20 | 40 | 41,5 | 1,2 | 37,5 | 10,2 | 21 | 210 | 10,5 | 8,5 | 6 | 8,8 | 88 | DCS0505100*JSD |
| 10 | 20 | 40 | 41,5 | 1,2 | 37,5 | - | 21 | 210 | 10 | 8 | 5,5 | 9,5 | 95 | DCS0505100*J# |
| 8 | 22 | 33,5 | 42,5 | 1,2 | 37,5 | - | 21 | 168 | 8 | 6,5 | 4,5 | 10,8 | 87 | DCS0504800*J# |
| 6,8 | 22 | 30 | 42,5 | 1,2 | 37,5 | - | 21 | 142,8 | 7,5 | 6 | 4 | 11,5 | 79 | DCS0504680*J# |
| 6 | 17 | 32 | 42,5 | 1,2 | 37,5 | - | 21 | 126 | 7 | 5,5 | 4 | 12,4 | 75 | DCS0504600*J# |
| 5 | 17 | 28 | 42,5 | 1,2 | 37,5 | - | 21 | 105 | 6,5 | 5 | 3,5 | 13,6 | 68 | DCS0504500*J# |

[1] at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; Irms rating for ΔT/Ta (Ta = T ambient) = +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); Irms values, with all terminals connected, are referred to max. tolerance on rated Capacitance = ±10%, for wider C tolerances, ESR variation from typical data and related different power dissipation must be taken in consideration
[2] typical value, with all terminals connected, at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration
[3] change the "*" symbol with the desired capacitance tolerance code (±5% = J; ±10% = K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals
[4] In progress
[^] Available upon request

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# DCH / DCS *NEW - In Progress*

MKP • box with multiple radial terminals • high energy density • DC-Link • medium-high current • medium-high frequency • not suitable for AC applications • DCS: high safety version


**[^]DCS055…: Ur = 1030Vdc at +85°C (case); max. admissible voltage at +70°C (case) = 1100Vdc**
**(45x65x42,5mm box in progress)**

| Cn | Dimensions (mm) | | | | | | du/dt | Ipeak | Irms max.[1] | | | ESR[2] | DF MAX. | ICEL CODE[3] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| μF | B | H | L | d | P | P1 | V/μs | A | A (ΔT=+15°C) | A (ΔT=+10°C) | A (ΔT=+5°C) | mΩ | x $10^{-4}$ @10kHz | - |
| 47 | 45 | 65 | 57,5 | 1,2 | 52,5 | 20,3 | 16 | 752 | 24 | 19,5 | 14 | 4 | 189 | DCS0555470*RSD [4] |
| 35 | 38 | 57,5 | 57,5 | 1,2 | 52,5 | 20,3 | 16 | 560 | 19 | 15,5 | 11 | 4,8 | 169 | DCS0555350*RSD |
| 27 | 35 | 50 | 57,5 | 1,2 | 52,5 | 20,3 | 16 | 432 | 15,5 | 12,5 | 9 | 6,1 | 165 | DCS0555270*RSD |
| 27 | 35 | 50 | 57,5 | 1,2 | 52,5 | - | 16 | 432 | 14 | 12 | 8 | 6,8 | 184 | DCS0555270*R# |
| 20 | 30 | 45 | 57,5 | 1,2 | 52,5 | 20,3 | 16 | 320 | 14 | 11,5 | 8 | 6,4 | 129 | DCS0555200*RSD |
| 20 | 30 | 45 | 57,5 | 1,2 | 52,5 | - | 16 | 320 | 13,5 | 11 | 7,5 | 7,1 | 143 | DCS0555200*R# |
| 18 | 35 | 50 | 42 | 1,2 | 37,5 | 20,3 | 23,5 | 423 | 17 | 14 | 10 | 5,7 | 103 | DCS0555180*JSD |
| 18 | 35 | 50 | 42 | 1,2 | 37,5 | - | 23,5 | 423 | 15,5 | 12,5 | 9 | 6,4 | 116 | DCS0555180*J# |
| 14 | 30 | 45 | 42,5 | 1,2 | 37,5 | 20,3 | 23,5 | 329 | 13,5 | 11 | 8 | 6,6 | 93 | DCS0555140*JSD |
| 14 | 30 | 45 | 42,5 | 1,2 | 37,5 | - | 23,5 | 329 | 13 | 10,5 | 7,5 | 7,3 | 103 | DCS0555140*J# |
| 11 | 24 | 44 | 41,5 | 1,2 | 37,5 | 10,2 | 23,5 | 258,5 | 12,5 | 10 | 7 | 7,5 | 83 | DCS0555110*JSD |
| 11 | 24 | 44 | 41,5 | 1,2 | 37,5 | - | 23,5 | 258,5 | 12 | 9,5 | 6 | 8,2 | 91 | DCS0555110*J# |
| 10 | 28 | 37 | 42,5 | 1,2 | 37,5 | 10,2 | 23,5 | 235 | 11 | 9 | 6,5 | 7,9 | 79 | DCS0555100*JSD |
| 10 | 28 | 37 | 42,5 | 1,2 | 37,5 | - | 23,5 | 235 | 10,5 | 8,5 | 6 | 8,6 | 86 | DCS0555100*J# |
| 8 | 20 | 40 | 41,5 | 1,2 | 37,5 | 10,2 | 23,5 | 188 | 10,5 | 8,5 | 6 | 8,9 | 72 | DCS0554800*JSD |
| 8 | 20 | 40 | 41,5 | 1,2 | 37,5 | - | 23,5 | 188 | 10 | 8 | 5,5 | 9,6 | 77 | DCS0554800*J# |
| 6,8 | 22 | 33,5 | 42,5 | 1,2 | 37,5 | - | 23,5 | 159,8 | 8 | 6,5 | 4,5 | 10,6 | 72 | DCS0554680*J# |
| 6 | 22 | 30 | 42,5 | 1,2 | 37,5 | - | 23,5 | 141 | 7,5 | 6 | 4,5 | 11,4 | 69 | DCS0554600*J# |
| 5 | 17 | 32 | 42,5 | 1,2 | 37,5 | - | 23,5 | 117,5 | 7 | 5,5 | 4 | 12,4 | 62 | DCS0554500*J# |
| 4 | 17 | 28 | 42,5 | 1,2 | 37,5 | - | 23,5 | 94 | 6 | 5 | 3,5 | 13,9 | 56 | DCS0554400*J# |

[1] at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; Irms rating for ΔT/Ta (Ta = T ambient) = +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); Irms values, with all terminals connected, are referred to max. tolerance on rated Capacitance = ±10%, for wider C tolerances, ESR variation from typical data and related different power dissipation must be taken in consideration
[2] typical value, with all terminals connected, at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration
[3] change the "*" symbol with the desired capacitance tolerance code (±5% = J; ±10% = K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals
[4] In progress
[^] Available upon request

# DCH / DCS *NEW - In Progress*

MKP • box with multiple radial terminals • high energy density
• DC-Link • medium-high current • medium-high frequency
• not suitable for AC applications • DCS: high safety version


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**[^]DCS060…: Ur = 1100Vdc at +85°C (case); max. admissible voltage at +70°C (case) = 1175Vdc**
**(45x65x42,5mm box in progress)**

| Cn | Dimensions (mm) | | | | | | du/dt | Ipeak | Irms max.[1] | | | ESR[2] | DF MAX. | ICEL CODE[3] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| μF | B | H | L | d | P | P1 | V/μs | A | A (ΔT=+15°C) | A (ΔT=+10°C) | A (ΔT=+5°C) | mΩ | x $10^{-4}$ @10kHz | - |
| 42,5 | 45 | 65 | 57,5 | 1,2 | 52,5 | 20,3 | 17,5 | 743,75 | 23,5 | 19 | 13,5 | 4,2 | 179 | DCS0605425*RSD [4] |
| 30 | 38 | 57,5 | 57,5 | 1,2 | 52,5 | 20,3 | 17,5 | 525 | 19 | 15,5 | 11 | 5 | 151 | DCS0605300*RSD |
| 22 | 35 | 50 | 57,5 | 1,2 | 52,5 | 20,3 | 17,5 | 385 | 16 | 13 | 9 | 6 | 133 | DCS0605220*RSD |
| 22 | 35 | 50 | 57,5 | 1,2 | 52,5 | - | 17,5 | 385 | 14 | 12 | 8,5 | 6,7 | 148 | DCS0605220*R# |
| 18 | 30 | 45 | 57,5 | 1,2 | 52,5 | 20,3 | 17,5 | 315 | 14 | 11 | 8 | 6,7 | 121 | DCS0605180*RSD |
| 18 | 30 | 45 | 57,5 | 1,2 | 52,5 | - | 17,5 | 315 | 13 | 10,5 | 7,5 | 7,4 | 134 | DCS0605180*R# |
| 16 | 35 | 50 | 42 | 1,2 | 37,5 | 20,3 | 25 | 400 | 16 | 13 | 9 | 6,3 | 101 | DCS0605160*JSD |
| 16 | 35 | 50 | 42 | 1,2 | 37,5 | - | 25 | 400 | 14 | 12 | 8,5 | 7 | 113 | DCS0605160*J# |
| 12 | 30 | 45 | 42,5 | 1,2 | 37,5 | 20,3 | 25 | 300 | 13 | 10,5 | 7,5 | 7 | 84 | DCS0605120*JSD |
| 12 | 30 | 45 | 42,5 | 1,2 | 37,5 | - | 25 | 300 | 12,5 | 10 | 7 | 7,7 | 93 | DCS0605120*J# |
| 9 | 24 | 44 | 41,5 | 1,2 | 37,5 | 10,2 | 25 | 225 | 12 | 9,5 | 6,5 | 8,1 | 73 | DCS0604900*JSD |
| 9 | 24 | 44 | 41,5 | 1,2 | 37,5 | - | 25 | 225 | 11,5 | 9,5 | 6,5 | 8,8 | 80 | DCS0604900*J# |
| 8 | 28 | 37 | 42,5 | 1,2 | 37,5 | 10,2 | 25 | 200 | 10,5 | 8,5 | 6 | 8,7 | 70 | DCS0604800*JSD |
| 8 | 28 | 37 | 42,5 | 1,2 | 37,5 | - | 25 | 200 | 10 | 8 | 6 | 9,4 | 76 | DCS0604800*J# |
| 6,8 | 20 | 40 | 41,5 | 1,2 | 37,5 | 10,2 | 25 | 170 | 10 | 8 | 5,5 | 9,4 | 64 | DCS0604680*JSD |
| 6,8 | 20 | 40 | 41,5 | 1,2 | 37,5 | - | 25 | 170 | 9,5 | 8 | 5,5 | 10,1 | 69 | DCS0604680*J# |
| 5,6 | 22 | 33,5 | 42,5 | 1,2 | 37,5 | - | 25 | 140 | 8 | 6,5 | 4,5 | 10,5 | 59 | DCS0604560*J# |
| 4,7 | 22 | 30 | 42,5 | 1,2 | 37,5 | - | 25 | 117,5 | 7,5 | 6 | 4 | 12,4 | 59 | DCS0604470*J# |
| 4 | 17 | 32 | 42,5 | 1,2 | 37,5 | - | 25 | 100 | 6,5 | 5,5 | 3,5 | 13,5 | 54 | DCS0604400*J# |
| 3,3 | 17 | 28 | 42,5 | 1,2 | 37,5 | - | 25 | 82,5 | 6 | 5 | 3,5 | 14,9 | 49 | DCS0604330*J# |

[1] at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; Irms rating for ΔT/Ta (Ta = T ambient) = +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); Irms values, with all terminals connected, are referred to max. tolerance on rated Capacitance = ±10%, for wider C tolerances, ESR variation from typical data and related different power dissipation must be taken in consideration
[2] typical value, with all terminals connected, at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration
[3] change the "*" symbol with the desired capacitance tolerance code (±5% = J; ±10% = K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals
[4] In progress
[^] Available upon request

# DCH / DCS *NEW - In Progress*

MKP • box with multiple radial terminals • high energy density • DC-Link • medium-high current • medium-high frequency • not suitable for AC applications • DCS: high safety version


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**[^]DCS070…: Ur = 1300Vdc at +85°C (case); max. admissible voltage at +70°C (case) = 1380Vdc**
**(45x65x42,5mm box in progress)**

| Cn | Dimensions (mm) | | | | | | du/dt | Ipeak | Irms max.[1] | | | ESR[2] | DF MAX. | ICEL CODE[3] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| μF | B | H | L | d | P | P1 | V/μs | A | A (ΔT=+15°C) | A (ΔT=+10°C) | A (ΔT=+5°C) | mΩ | x $10^{-4}$ @10kHz | - |
| 30 | 45 | 65 | 57,5 | 1,2 | 52,5 | 20,3 | 20 | 600 | 22 | 18 | 12,5 | 4,7 | 142 | DCS0705300*RSD [4] |
| 22 | 38 | 57,5 | 57,5 | 1,2 | 52,5 | 20,3 | 20 | 440 | 17,5 | 14,5 | 10 | 5,7 | 126 | DCS0705220*RSD |
| 17,5 | 35 | 50 | 57,5 | 1,2 | 52,5 | 20,3 | 20 | 350 | 15,5 | 12,5 | 9 | 6,3 | 111 | DCS0705175*RSD |
| 17,5 | 35 | 50 | 57,5 | 1,2 | 52,5 | - | 20 | 350 | 14 | 12 | 8,5 | 7 | 123 | DCS0705175*R# |
| 12,5 | 30 | 45 | 57,5 | 1,2 | 52,5 | 20,3 | 20 | 250 | 13 | 10,5 | 7,5 | 7,7 | 97 | DCS0705125*RSD |
| 12,5 | 30 | 45 | 57,5 | 1,2 | 52,5 | - | 20 | 250 | 12,5 | 10 | 7 | 8,4 | 106 | DCS0705125*R# |
| 11 | 35 | 50 | 42 | 1,2 | 37,5 | 20,3 | 30 | 330 | 15,5 | 12,5 | 9 | 6,8 | 75 | DCS0705110*JSD |
| 11 | 35 | 50 | 42 | 1,2 | 37,5 | - | 30 | 330 | 14 | 12 | 8,5 | 7,5 | 83 | DCS0705110*J# |
| 8 | 30 | 45 | 42,5 | 1,2 | 37,5 | 20,3 | 30 | 240 | 11,5 | 9,5 | 6,5 | 8,9 | 72 | DCS0704800*JSD |
| 8 | 30 | 45 | 42,5 | 1,2 | 37,5 | - | 30 | 240 | 11 | 9 | 6,5 | 9,6 | 77 | DCS0704800*J# |
| 6,8 | 24 | 44 | 41,5 | 1,2 | 37,5 | 10,2 | 30 | 204 | 11,5 | 9,5 | 6,5 | 8,8 | 60 | DCS0704680*JSD |
| 6,8 | 24 | 44 | 41,5 | 1,2 | 37,5 | - | 30 | 204 | 11 | 9 | 6,5 | 9,5 | 65 | DCS0704680*J# |
| 6 | 28 | 37 | 42,5 | 1,2 | 37,5 | 10,2 | 30 | 180 | 10 | 8 | 6 | 9,4 | 57 | DCS0704600*JSD |
| 6 | 28 | 37 | 42,5 | 1,2 | 37,5 | - | 30 | 180 | 9,5 | 8 | 5,5 | 10,1 | 61 | DCS0704600*J# |
| 4,7 | 20 | 40 | 41,5 | 1,2 | 37,5 | 10,2 | 30 | 141 | 9,5 | 7,5 | 5,5 | 10,7 | 51 | DCS0704470*JSD |
| 4,7 | 20 | 40 | 41,5 | 1,2 | 37,5 | - | 30 | 141 | 9 | 7,5 | 5 | 11,4 | 54 | DCS0704470*J# |
| 4 | 22 | 33,5 | 42,5 | 1,2 | 37,5 | - | 30 | 120 | 7,5 | 6,5 | 4,5 | 11,8 | 47 | DCS0704400*J# |
| 3,3 | 22 | 30 | 42,5 | 1,2 | 37,5 | - | 30 | 99 | 7 | 5,5 | 4 | 14 | 46 | DCS0704330*J# |
| 3 | 17 | 32 | 42,5 | 1,2 | 37,5 | - | 30 | 90 | 6,5 | 5,5 | 3,5 | 14,7 | 44 | DCS0704300*J# |
| 2,5 | 17 | 28 | 42,5 | 1,2 | 37,5 | - | 30 | 75 | 5,5 | 4,5 | 3 | 16 | 40 | DCS0704250*J# |

[1] at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; Irms rating for ΔT/Ta (Ta = T ambient) = +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); Irms values, with all terminals connected, are referred to max. tolerance on rated Capacitance = ±10%, for wider C tolerances, ESR variation from typical data and related different power dissipation must be taken in consideration
[2] typical value, with all terminals connected, at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration
[3] change the "*" symbol with the desired capacitance tolerance code (±5% = J; ±10% = K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals
[4] In progress
[^] Available upon request

# DCH / DCS *NEW - In Progress*

MKP • box with multiple radial terminals • high energy density
• DC-Link • medium-high current • medium-high frequency
• not suitable for AC applications • DCS: high safety version


**[^]DCS080…: Ur = 1500Vdc at +85°C (case); max. admissible voltage at +70°C (case) = 1585Vdc**
**(45x65x42,5mm box in progress)**

| Cn | Dimensions (mm) | | | | | | du/dt | Ipeak | Irms max.[1] | | | ESR[2] | DF MAX. | ICEL CODE[3] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| μF | B | H | L | d | P | P1 | V/μs | A | A (ΔT=+15°C) | A (ΔT=+10°C) | A (ΔT=+5°C) | mΩ | x 10⁻⁴ @10kHz | - |
| 22 | 45 | 65 | 57,5 | 1,2 | 52,5 | 20,3 | 23 | 506 | 19 | 15,5 | 11 | 6,5 | 144 | DCS0805220*RSD [4] |
| 16 | 38 | 57,5 | 57,5 | 1,2 | 52,5 | 20,3 | 23 | 368 | 17 | 13,5 | 9,5 | 6,3 | 101 | DCS0805160*RSD |
| 12,5 | 35 | 50 | 57,5 | 1,2 | 52,5 | 20,3 | 23 | 287,5 | 14,5 | 12 | 8,5 | 7,1 | 89 | DCS0805125*RSD |
| 12,5 | 35 | 50 | 57,5 | 1,2 | 52,5 | - | 23 | 287,5 | 14 | 11,5 | 8 | 7,8 | 98 | DCS0805125*R# |
| 10 | 30 | 45 | 57,5 | 1,2 | 52,5 | 20,3 | 23 | 230 | 13 | 10,5 | 7,5 | 7,9 | 79 | DCS0805100*RSD |
| 10 | 30 | 45 | 57,5 | 1,2 | 52,5 | - | 23 | 230 | 12 | 10 | 7 | 8,6 | 86 | DCS0805100*R# |
| 9 | 35 | 50 | 42 | 1,2 | 37,5 | 20,3 | 34 | 306 | 13 | 10,5 | 7,5 | 9,6 | 87 | DCS0804900*JSD |
| 9 | 35 | 50 | 42 | 1,2 | 37,5 | - | 34 | 306 | 12,5 | 10 | 7 | 10,3 | 93 | DCS0804900*J# |
| 6,8 | 30 | 45 | 42,5 | 1,2 | 37,5 | 20,3 | 34 | 231,2 | 11,5 | 9,5 | 6,5 | 9 | 61 | DCS0804680*JSD |
| 6,8 | 30 | 45 | 42,5 | 1,2 | 37,5 | - | 34 | 231,2 | 11 | 9 | 6,5 | 9,7 | 66 | DCS0804680*J# |
| 5 | 24 | 44 | 41,5 | 1,2 | 37,5 | 10,2 | 34 | 170 | 11 | 9 | 6,5 | 9,5 | 48 | DCS0804500*JSD |
| 5 | 24 | 44 | 41,5 | 1,2 | 37,5 | - | 34 | 170 | 10,5 | 8,5 | 6 | 10,2 | 51 | DCS0804500*J# |
| 4,7 | 28 | 37 | 42,5 | 1,2 | 37,5 | 10,2 | 34 | 159,8 | 9,5 | 8 | 5,5 | 9,9 | 47 | DCS0804470*JSD |
| 4,7 | 28 | 37 | 42,5 | 1,2 | 37,5 | - | 34 | 159,8 | 9,5 | 7,5 | 5,5 | 10,6 | 50 | DCS0804470*J# |
| 3,3 | 20 | 40 | 41,5 | 1,2 | 37,5 | 10,2 | 34 | 112,2 | 8,5 | 7 | 5 | 12,9 | 43 | DCS0804330*JSD |
| 3,3 | 20 | 40 | 41,5 | 1,2 | 37,5 | - | 34 | 112,2 | 8,5 | 6,5 | 4,5 | 13,6 | 45 | DCS0804330*J# |
| 3 | 22 | 33,5 | 42,5 | 1,2 | 37,5 | - | 34 | 102 | 7 | 5,5 | 4 | 13,5 | 41 | DCS0804300*J# |
| 2,2 | 17 | 32 | 42,5 | 1,2 | 37,5 | - | 34 | 74,8 | 6 | 5 | 3,5 | 15,7 | 35 | DCS0804220*J# |
| 1,8 | 17 | 28 | 42,5 | 1,2 | 37,5 | - | 34 | 61,2 | 5,5 | 4,5 | 3 | 17,4 | 31 | DCS0804180*J# |

[1] at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; Irms rating for ΔT/Ta (Ta = T ambient) = +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); Irms values, with all terminals connected, are referred to max. tolerance on rated Capacitance = ±10%, for wider C tolerances, ESR variation from typical data and related different power dissipation must be taken in consideration
[2] typical value, with all terminals connected, at f = 10kHz÷45kHz for P = 37.5mm, at f = 10kHz÷30kHz for P = 52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration
[3] change the "*" symbol with the desired capacitance tolerance code (±5% = J; ±10% = K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals
[4] In progress
[^] Available upon request

**IMPORTANT:**

**information and data contained in the chapter "General technical information", are a completing part of the single series specifications. The series specifications are completed with the data given in the "General Technical Information" chapter.**

**Data and characteristics shown in this catalogue are subjected to modifications without notice.**

**Always refer to ICEL S.r.l. web site, www.icel.it for products updated characteristics, last revision specifications, general data and information, products certifications and news.**

**Warning: this specification must be completed with the data given in the "General technical information" chapter**