

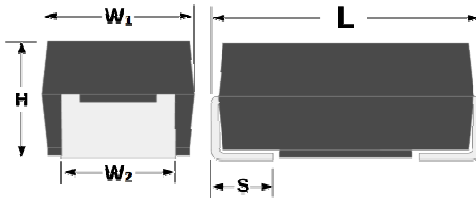


Product characteristics

- Epoxy resin molded package, sheet, small size, light weight, easy to integrate, polarity;
- Operating temperature up to 150 , stable electrical and storage performance, long working life, high reliability;
- Typical applications include terminal decoupling and filtering applications in industrial and automotive applications such as DC/DC converters, portable electronics, communication electronics, and control units equal to 150 ° C;

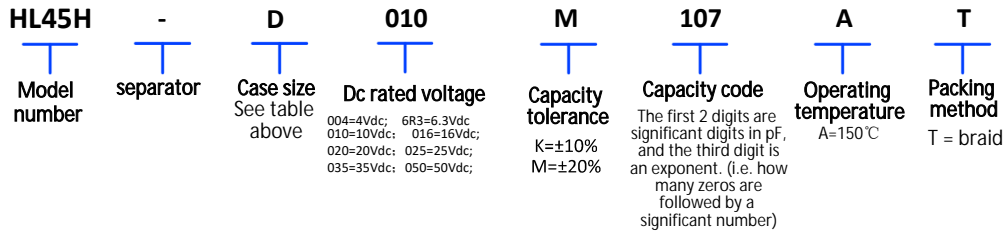


Overall dimensions (mm)



| Case Code | EIA Code | EIA Metric | L | W ₁ | H | W ₂ | S |
|-----------|----------|------------|-----------|----------------|-----------|----------------|-----------|
| A | 1206 | 3216 - 18 | 3.30±0.20 | 1.70±0.20 | 1.80±0.20 | 0.70±0.20 | 1.20±0.20 |
| B | 1210 | 3528 - 21 | 3.60±0.20 | 2.90±0.20 | 2.10±0.20 | 0.70±0.20 | 2.20±0.20 |
| C | 2312 | 6032 - 28 | 6.20±0.20 | 3.30±0.20 | 2.60±0.20 | 1.30±0.20 | 2.20±0.20 |
| D | 2917 | 7343 - 31 | 7.40±0.20 | 4.40±0.20 | 3.00±0.20 | 1.30±0.20 | 2.40±0.20 |
| E | 2917 | 7343 - 43 | 7.40±0.40 | 4.40±0.40 | 4.30±0.40 | 1.30±0.20 | 2.40±0.20 |

Product code



Environmental statement

The RoHS Declaration (6/6) is in compliance with the requirements of Directive 2002/95/EC, which stipulates the use of 100%Sn solders, gold-coated or non-magnetic 100%Sn solders.



Product identification



Technical characteristics

Technical parameter

All technical parameters were measured at 1 atmosphere at +25 ° C

| | | | | | | | | | |
|--------------------------------|------------------------------------------------------------------------------------------|-----|-----|-----|----|----|----|----|----|
| Capacity range | 0.47µF~220µF | | | | | | | | |
| Capacity tolerance | ±10%; ±20%; | | | | | | | | |
| Rated voltage(V _r) | ≤+85°C: | 4 | 6.3 | 10 | 16 | 20 | 25 | 35 | 50 |
| Class voltage(V _c) | ≤+150°C: | 2.7 | 4 | 6.3 | 10 | 15 | 17 | 23 | 33 |
| Surge voltage(V _s) | ≤+85°C: | 5.2 | 8 | 13 | 20 | 26 | 32 | 46 | 65 |
| Surge voltage(V _s) | ≤+150°C: | 3.4 | 5 | 8 | 13 | 16 | 20 | 28 | 40 |
| Temperature range | -55°C to+150°C | | | | | | | | |
| Extraction coating | Tin coating (standard), gold coating or tin lead coating to make additional requirements | | | | | | | | |



Product specification shell number comparison table
(Letters are shell code)

| Rated voltage (V) | 4 | 6.3 | 10 | 16 | 20 | 25 | 35 | 50 |
|-------------------|--------------|-------|-----|-------|-----|-----|-----|-----|
| Capacity (μF) | Shell number | | | | | | | |
| 0.47 | | | | | | A | A/B | C |
| 0.68 | | | | | A | A | A/B | C |
| 1 | | | | A | A | A/B | A/B | C |
| 1.5 | | | A | A | A | B | B/C | C/D |
| 2.2 | | A | A | A | A/B | B | C | C/D |
| 3.3 | | A | A | A/B | B | B/C | C | D |
| 4.7 | | A | A/B | A/B | B/C | B/C | C/D | D |
| 6.8 | | A/B | A/B | A/B/C | C | C/D | C/D | D/E |
| 10 | | A/B | B/C | B/C | C | C/D | D | E |
| 15 | | B/C | B/C | B/C | C/D | C/D | D/E | |
| 22 | | B/C | B/C | C/D | C/D | D | D/E | |
| 33 | | B/C | C/D | C/D | D | D | E | |
| 47 | | B/C/D | C/D | C/D | D/E | E | E | |
| 68 | | B/C/D | C/D | D | E | | | |
| 100 | | D | D | E | | | | |
| 150 | D | D | E | | | | | |
| 220 | | | E | | | | | |



Product code and parameter specification

| Rated voltage | Class voltage | Capacity | Shell number | Product code | Maximum leakage current @ +25 | Maximum loss @+25 , 100Hz | ESR maximum @+25 , 100kHz | Maximum allowable Ripple current (mA) @100kHz | | | Operating temperature | Humidity sensitivity class |
|---------------|---------------|----------|--------------|------------------|-------------------------------|---------------------------|---------------------------|-----------------------------------------------|------|-------|-----------------------|----------------------------|
| V | V | μF | | | μA | % | mΩ | +25℃ | +85℃ | +150℃ | ℃ | |
| 4 | 2.7 | 150 | D | HL45H-D004#157AT | 6.0 | 6 | 0.6 | 418 | 251 | 125 | 150 | 1 |
| 6.3 | 4.2 | 2.2 | A | HL45H-A6R3#225AT | 0.5 | 6 | 8 | 90 | 54 | 27 | 150 | 1 |
| 6.3 | 4.2 | 3.3 | A | HL45H-A6R3#335AT | 0.5 | 6 | 8 | 90 | 54 | 27 | 150 | 1 |
| 6.3 | 4.2 | 4.7 | A | HL45H-A6R3#475AT | 0.5 | 6 | 8 | 90 | 54 | 27 | 150 | 1 |
| 6.3 | 4.2 | 6.8 | A | HL45H-A6R3#685AT | 0.5 | 6 | 8 | 90 | 54 | 27 | 150 | 1 |
| 6.3 | 4.2 | 6.8 | B | HL45H-B6R3#685AT | 0.5 | 4.5 | 2.7 | 167 | 100 | 50 | 150 | 1 |
| 6.3 | 4.2 | 10 | A | HL45H-A6R3#106AT | 0.6 | 6 | 8 | 90 | 54 | 27 | 150 | 1 |
| 6.3 | 4.2 | 10 | B | HL45H-B6R3#106AT | 0.6 | 4.5 | 2.1 | 189 | 113 | 57 | 150 | 1 |
| 6.3 | 4.2 | 15 | B | HL45H-B6R3#156AT | 0.9 | 6 | 5 | 122 | 73 | 37 | 150 | 1 |
| 6.3 | 4.2 | 15 | C | HL45H-C6R3#156AT | 0.9 | 4.5 | 1.7 | 230 | 138 | 69 | 150 | 1 |
| 6.3 | 4.2 | 22 | B | HL45H-B6R3#226AT | 1.4 | 6 | 5 | 122 | 73 | 37 | 150 | 1 |
| 6.3 | 4.2 | 22 | C | HL45H-C6R3#226AT | 1.4 | 4.5 | 1.3 | 263 | 158 | 79 | 150 | 1 |
| 6.3 | 4.2 | 33 | B | HL45H-B6R3#336AT | 2.1 | 6 | 3.5 | 146 | 88 | 44 | 150 | 1 |
| 6.3 | 4.2 | 33 | C | HL45H-C6R3#336AT | 2.1 | 4.5 | 1.1 | 286 | 172 | 86 | 150 | 1 |
| 6.3 | 4.2 | 47 | B | HL45H-B6R3#476AT | 3.0 | 6 | 3 | 158 | 95 | 47 | 150 | 1 |
| 6.3 | 4.2 | 47 | C | HL45H-C6R3#476AT | 3.0 | 6 | 2 | 212 | 127 | 64 | 150 | 1 |
| 6.3 | 4.2 | 47 | D | HL45H-D6R3#476AT | 3.0 | 4.5 | 0.8 | 362 | 217 | 109 | 150 | 1 |
| 6.3 | 4.2 | 68 | B | HL45H-B6R3#686AT | 4.3 | 6 | 4.2 | 134 | 80 | 40 | 150 | 1 |
| 6.3 | 4.2 | 68 | C | HL45H-C6R3#686AT | 4.3 | 6 | 2 | 212 | 127 | 64 | 150 | 1 |
| 6.3 | 4.2 | 68 | D | HL45H-D6R3#686AT | 4.3 | 4.5 | 0.6 | 418 | 251 | 125 | 150 | 1 |
| 6.3 | 4.2 | 100 | D | HL45H-D6R3#107AT | 6.3 | 6 | 0.6 | 418 | 251 | 125 | 150 | 1 |
| 6.3 | 4.2 | 150 | D | HL45H-D6R3#157AT | 9.5 | 6 | 0.5 | 458 | 275 | 137 | 150 | 1 |
| 10 | 6.7 | 1.5 | A | HL45H-A010#155AT | 0.5 | 6 | 8 | 90 | 54 | 27 | 150 | 1 |
| 10 | 6.7 | 2.2 | A | HL45H-A010#225AT | 0.5 | 6 | 8 | 90 | 54 | 27 | 150 | 1 |
| 10 | 6.7 | 3.3 | A | HL45H-A010#335AT | 0.5 | 6 | 9 | 85 | 51 | 25 | 150 | 1 |
| 10 | 6.7 | 4.7 | A | HL45H-A010#475AT | 0.5 | 6 | 8 | 90 | 54 | 27 | 150 | 1 |
| 10 | 6.7 | 4.7 | B | HL45H-B010#475AT | 0.5 | 4.5 | 2.7 | 167 | 100 | 50 | 150 | 1 |
| 10 | 6.7 | 6.8 | A | HL45H-A010#685AT | 0.7 | 6 | 8 | 90 | 54 | 27 | 150 | 1 |
| 10 | 6.7 | 6.8 | B | HL45H-B010#685AT | 0.7 | 4.5 | 2.1 | 189 | 113 | 57 | 150 | 1 |
| 10 | 6.7 | 10 | B | HL45H-B010#106AT | 1.0 | 6 | 6 | 112 | 67 | 34 | 150 | 1 |
| 10 | 6.7 | 10 | C | HL45H-C010#106AT | 1.0 | 4.5 | 1.7 | 230 | 138 | 69 | 150 | 1 |
| 10 | 6.7 | 15 | B | HL45H-B010#156AT | 1.5 | 6 | 5 | 122 | 73 | 37 | 150 | 1 |
| 10 | 6.7 | 15 | C | HL45H-C010#156AT | 1.5 | 4.5 | 1.8 | 224 | 134 | 67 | 150 | 1 |
| 10 | 6.7 | 22 | B | HL45H-B010#226AT | 2.2 | 6 | 5 | 122 | 73 | 37 | 150 | 1 |
| 10 | 6.7 | 22 | C | HL45H-C010#226AT | 2.2 | 6 | 1.6 | 237 | 142 | 71 | 150 | 1 |
| 10 | 6.7 | 33 | C | HL45H-C010#336AT | 3.3 | 6 | 2.5 | 190 | 114 | 57 | 150 | 1 |
| 10 | 6.7 | 33 | D | HL45H-D010#336AT | 3.3 | 6 | 1.1 | 309 | 185 | 93 | 150 | 1 |
| 10 | 6.7 | 47 | C | HL45H-C010#476AT | 4.7 | 6 | 2 | 212 | 127 | 64 | 150 | 1 |
| 10 | 6.7 | 47 | D | HL45H-D010#476AT | 4.7 | 6 | 0.9 | 342 | 205 | 102 | 150 | 1 |
| 10 | 6.7 | 68 | C | HL45H-C010#686AT | 6.8 | 6 | 2 | 212 | 127 | 64 | 150 | 1 |
| 10 | 6.7 | 68 | D | HL45H-D010#686AT | 6.8 | 6 | 1.5 | 265 | 159 | 79 | 150 | 1 |
| 10 | 6.7 | 100 | D | HL45H-D010#107AT | 10.0 | 8 | 1.2 | 296 | 177 | 89 | 150 | 1 |
| 10 | 6.7 | 150 | E | HL45H-E010#157AT | 15.0 | 8 | 0.8 | 395 | 237 | 119 | 150 | 1 |
| 10 | 6.7 | 220 | E | HL45H-E010#227AT | 22.0 | 8 | 1 | 354 | 212 | 106 | 150 | 1 |
| 16 | 10.7 | 1 | A | HL45H-A016#105AT | 0.5 | 4 | 10 | 81 | 48 | 24 | 150 | 1 |
| 16 | 10.7 | 1.5 | A | HL45H-A016#155AT | 0.5 | 6 | 8 | 90 | 54 | 27 | 150 | 1 |
| 16 | 10.7 | 2.2 | A | HL45H-A016#225AT | 0.5 | 6 | 8 | 90 | 54 | 27 | 150 | 1 |
| 16 | 10.7 | 3.3 | A | HL45H-A016#335AT | 0.5 | 6 | 9 | 85 | 51 | 25 | 150 | 1 |
| 16 | 10.7 | 3.3 | B | HL45H-B016#335AT | 0.5 | 6 | 5.5 | 117 | 70 | 35 | 150 | 1 |
| 16 | 10.7 | 4.7 | A | HL45H-A016#475AT | 0.8 | 6 | 8 | 90 | 54 | 27 | 150 | 1 |
| 16 | 10.7 | 4.7 | B | HL45H-B016#475AT | 0.8 | 6 | 4 | 137 | 82 | 41 | 150 | 1 |
| 16 | 10.7 | 6.8 | A | HL45H-A016#685AT | 1.1 | 4.5 | 2.6 | 158 | 95 | 47 | 150 | 1 |
| 16 | 10.7 | 6.8 | B | HL45H-B016#685AT | 1.1 | 6 | 6 | 112 | 67 | 34 | 150 | 1 |

- # is the replacement character to indicate the capacity tolerance, fill in K represents +10%, M represents +20%;
- Do not use a multimeter;
- Capacity and loss measurement conditions: 100Hz, $U_{-2.2}^{0.1}V$, $U_{-1.0}^{0.5}V$, Frequency=100Hz, Series measurement
- If the ambient temperature is higher than +85 °C, the derating voltage is required. (The leakage current parameter is the reading after 5 minutes of power-on.)
- For special sizes or requirements please contact us.



Product code and parameter specification

| Rated voltage | Class voltage | Capacity | Shell number | Product code | Maximum leakage current @ +25 | Maximum loss @+25 , 100Hz | ESR maximum @+25 , 100kHz | Maximum allowable Ripple current (mA) @100kHz | | | Operating temperature | MSL |
|---------------|---------------|----------|--------------|------------------|-------------------------------|---------------------------|---------------------------|-----------------------------------------------|------|------|-----------------------|-----|
| V | V | μF | | | μA | % | mΩ | +25℃ | +85℃ | 150℃ | ℃ | |
| 16 | 10.7 | 6.8 | C | HL45H-C016#685AT | 1.1 | 4.5 | 1.7 | 230 | 138 | 69 | 150 | 1 |
| 16 | 10.7 | 10 | B | HL45H-B016#106AT | 1.6 | 6 | 6 | 112 | 67 | 34 | 150 | 1 |
| 16 | 10.7 | 10 | C | HL45H-C016#106AT | 1.6 | 4.5 | 1.4 | 254 | 152 | 76 | 150 | 1 |
| 16 | 10.7 | 15 | B | HL45H-B016#156AT | 2.4 | 6 | 5 | 122 | 73 | 37 | 150 | 1 |
| 16 | 10.7 | 15 | C | HL45H-C016#156AT | 2.4 | 6 | 1.8 | 224 | 134 | 67 | 150 | 1 |
| 16 | 10.7 | 22 | C | HL45H-C016#226AT | 3.5 | 6 | 3 | 173 | 104 | 52 | 150 | 1 |
| 16 | 10.7 | 22 | D | HL45H-D016#226AT | 3.5 | 4.5 | 0.8 | 362 | 217 | 109 | 150 | 1 |
| 16 | 10.7 | 33 | C | HL45H-C016#336AT | 5.3 | 6 | 2.5 | 190 | 114 | 57 | 150 | 1 |
| 16 | 10.7 | 33 | D | HL45H-D016#336AT | 5.3 | 6 | 0.9 | 342 | 205 | 102 | 150 | 1 |
| 16 | 10.7 | 47 | C | HL45H-C016#476AT | 7.5 | 6 | 2 | 212 | 127 | 64 | 150 | 1 |
| 16 | 10.7 | 47 | D | HL45H-D016#476AT | 7.5 | 6 | 1.5 | 265 | 159 | 79 | 150 | 1 |
| 16 | 10.7 | 68 | D | HL45H-D016#686AT | 10.9 | 6 | 1.5 | 265 | 159 | 79 | 150 | 1 |
| 16 | 10.7 | 100 | E | HL45H-E016#107AT | 16.0 | 8 | 0.8 | 395 | 237 | 119 | 150 | 1 |
| 20 | 13.3 | 0.68 | A | HL45H-A020#684AT | 0.5 | 3 | 7.8 | 91 | 55 | 27 | 150 | 1 |
| 20 | 13.3 | 1 | A | HL45H-A020#105AT | 0.5 | 4 | 10 | 81 | 48 | 24 | 150 | 1 |
| 20 | 13.3 | 1.5 | A | HL45H-A020#155AT | 0.5 | 6 | 16 | 64 | 38 | 19 | 150 | 1 |
| 20 | 13.3 | 2.2 | A | HL45H-A020#225AT | 0.5 | 6 | 12 | 74 | 44 | 22 | 150 | 1 |
| 20 | 13.3 | 2.2 | B | HL45H-B020#225AT | 0.5 | 6 | 5 | 122 | 73 | 37 | 150 | 1 |
| 20 | 13.3 | 3.3 | B | HL45H-B020#335AT | 0.7 | 6 | 4 | 137 | 82 | 41 | 150 | 1 |
| 20 | 13.3 | 4.7 | B | HL45H-B020#475AT | 0.9 | 6 | 6 | 112 | 67 | 34 | 150 | 1 |
| 20 | 13.3 | 4.7 | C | HL45H-C020#475AT | 0.9 | 6 | 3 | 173 | 104 | 52 | 150 | 1 |
| 20 | 13.3 | 6.8 | C | HL45H-C020#685AT | 1.4 | 6 | 2.4 | 194 | 116 | 58 | 150 | 1 |
| 20 | 13.3 | 10 | C | HL45H-C020#106AT | 2.0 | 6 | 4 | 150 | 90 | 45 | 150 | 1 |
| 20 | 13.3 | 15 | C | HL45H-C020#156AT | 3.0 | 6 | 4 | 150 | 90 | 45 | 150 | 1 |
| 20 | 13.3 | 15 | D | HL45H-D020#156AT | 3.0 | 6 | 1.1 | 309 | 185 | 93 | 150 | 1 |
| 20 | 13.3 | 22 | C | HL45H-C020#226AT | 4.4 | 6 | 3 | 173 | 104 | 52 | 150 | 1 |
| 20 | 13.3 | 22 | D | HL45H-D020#226AT | 4.4 | 6 | 0.9 | 342 | 205 | 102 | 150 | 1 |
| 20 | 13.3 | 33 | D | HL45H-D020#336AT | 6.6 | 6 | 1.5 | 265 | 159 | 79 | 150 | 1 |
| 20 | 13.3 | 47 | D | HL45H-D020#476AT | 9.4 | 6 | 1.5 | 265 | 159 | 79 | 150 | 1 |
| 20 | 13.3 | 47 | E | HL45H-E020#476AT | 9.4 | 6 | 0.8 | 395 | 237 | 119 | 150 | 1 |
| 20 | 13.3 | 68 | E | HL45H-E020#686AT | 13.6 | 6 | 0.8 | 395 | 237 | 119 | 150 | 1 |
| 25 | 16.7 | 0.47 | A | HL45H-A025#474AT | 0.5 | 4 | 14 | 68 | 41 | 20 | 150 | 1 |
| 25 | 16.7 | 0.68 | A | HL45H-A025#684AT | 0.5 | 4 | 17 | 62 | 37 | 19 | 150 | 1 |
| 25 | 16.7 | 1 | A | HL45H-A025#105AT | 0.5 | 4 | 16 | 64 | 38 | 19 | 150 | 1 |
| 25 | 16.7 | 1 | B | HL45H-B025#105AT | 0.5 | 4 | 6.5 | 107 | 64 | 32 | 150 | 1 |
| 25 | 16.7 | 1.5 | B | HL45H-B025#155AT | 0.5 | 6 | 6.5 | 107 | 64 | 32 | 150 | 1 |
| 25 | 16.7 | 2.2 | B | HL45H-B025#225AT | 0.6 | 6 | 8 | 97 | 58 | 29 | 150 | 1 |
| 25 | 16.7 | 3.3 | B | HL45H-B025#335AT | 0.8 | 6 | 7 | 104 | 62 | 31 | 150 | 1 |
| 25 | 16.7 | 3.3 | C | HL45H-C025#335AT | 0.8 | 6 | 4 | 150 | 90 | 45 | 150 | 1 |
| 25 | 16.7 | 4.7 | B | HL45H-B025#475AT | 1.2 | 6 | 6 | 112 | 67 | 34 | 150 | 1 |
| 25 | 16.7 | 4.7 | C | HL45H-C025#475AT | 1.2 | 6 | 2.5 | 190 | 114 | 57 | 150 | 1 |
| 25 | 16.7 | 6.8 | C | HL45H-C025#685AT | 1.7 | 6 | 3 | 173 | 104 | 52 | 150 | 1 |
| 25 | 16.7 | 6.8 | D | HL45H-D025#685AT | 1.7 | 4.5 | 1.1 | 309 | 185 | 93 | 150 | 1 |
| 25 | 16.7 | 10 | C | HL45H-C025#106AT | 2.5 | 6 | 4 | 150 | 90 | 45 | 150 | 1 |
| 25 | 16.7 | 10 | D | HL45H-D025#106AT | 2.5 | 6 | 1.2 | 296 | 177 | 89 | 150 | 1 |
| 25 | 16.7 | 15 | C | HL45H-C025#156AT | 3.8 | 6 | 4 | 150 | 90 | 45 | 150 | 1 |
| 25 | 16.7 | 15 | D | HL45H-D025#156AT | 3.8 | 6 | 1 | 324 | 194 | 97 | 150 | 1 |
| 25 | 16.7 | 22 | D | HL45H-D025#226AT | 5.5 | 6 | 1.8 | 242 | 145 | 72 | 150 | 1 |
| 25 | 16.7 | 33 | D | HL45H-D025#336AT | 8.3 | 6 | 1.5 | 265 | 159 | 79 | 150 | 1 |
| 25 | 16.7 | 47 | E | HL45H-E025#476AT | 11.8 | 6 | 1.2 | 323 | 194 | 97 | 150 | 1 |
| 35 | 23.3 | 0.47 | A | HL45H-A035#474AT | 0.5 | 4 | 18 | 60 | 36 | 18 | 150 | 1 |
| 35 | 23.3 | 0.47 | B | HL45H-B035#474AT | 0.5 | 3 | 8 | 97 | 58 | 29 | 150 | 1 |
| 35 | 23.3 | 0.68 | A | HL45H-A035#684AT | 0.5 | 4 | 17 | 62 | 37 | 19 | 150 | 1 |

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- Do not use a multimeter;
- Capacity and loss measurement conditions: 100Hz, $U_{DC}=2.2U_r$, $U_{AC}=1.0U_r$, Frequency=100Hz, Series measurement
- If the ambient temperature is higher than +85 °C, the derating voltage is required. (The leakage current parameter is the reading after 5 minutes of power-on.)
- For special sizes or requirements please contact us.



Product code and parameter specification

| Rated voltage | Class voltage | Capacity | Shell number | Product code | Maximum leakage current @ +25 | Maximum loss @+25 , 100Hz | ESR maximum @+25 , 100kHz | Maximum allowable Ripple current (mA) @100kHz | | | Operating temperature | Humidity sensitivity class |
|---------------|---------------|----------|--------------|------------------|-------------------------------|---------------------------|---------------------------|-----------------------------------------------|--------|---------|-----------------------|----------------------------|
| | | | | | | | | +25 °C | +85 °C | +150 °C | | |
| V | V | μ F | | | μ A | % | m Ω | | | | °C | |
| 35 | 23.3 | 0.68 | B | HL45H-B035#684AT | 0.5 | 3 | 5.5 | 117 | 70 | 35 | 150 | 1 |
| 35 | 23.3 | 1 | A | HL45H-A035#105AT | 0.5 | 4 | 10 | 81 | 48 | 24 | 150 | 1 |
| 35 | 23.3 | 1 | B | HL45H-B035#105AT | 0.5 | 4 | 6.5 | 107 | 64 | 32 | 150 | 1 |
| 35 | 23.3 | 1.5 | B | HL45H-B035#155AT | 0.5 | 6 | 12 | 79 | 47 | 24 | 150 | 1 |
| 35 | 23.3 | 1.5 | C | HL45H-C035#155AT | 0.5 | 6 | 4.5 | 141 | 85 | 42 | 150 | 1 |
| 35 | 23.3 | 2.2 | C | HL45H-C035#225AT | 0.8 | 6 | 3.5 | 160 | 96 | 48 | 150 | 1 |
| 35 | 23.3 | 3.3 | C | HL45H-C035#335AT | 1.2 | 6 | 2.5 | 190 | 114 | 57 | 150 | 1 |
| 35 | 23.3 | 4.7 | C | HL45H-C035#475AT | 1.6 | 6 | 5 | 134 | 80 | 40 | 150 | 1 |
| 35 | 23.3 | 4.7 | D | HL45H-D035#475AT | 1.6 | 6 | 1.5 | 265 | 159 | 79 | 150 | 1 |
| 35 | 23.3 | 6.8 | C | HL45H-C035#685AT | 2.4 | 6 | 3 | 173 | 104 | 52 | 150 | 1 |
| 35 | 23.3 | 6.8 | D | HL45H-D035#685AT | 2.4 | 6 | 1.3 | 284 | 171 | 85 | 150 | 1 |
| 35 | 23.3 | 10 | D | HL45H-D035#106AT | 3.5 | 6 | 1.1 | 309 | 185 | 93 | 150 | 1 |
| 35 | 23.3 | 15 | D | HL45H-D035#156AT | 5.3 | 6 | 2 | 229 | 137 | 69 | 150 | 1 |
| 35 | 23.3 | 15 | E | HL45H-E035#156AT | 5.3 | 6 | 1.1 | 337 | 202 | 101 | 150 | 1 |
| 35 | 23.3 | 22 | D | HL45H-D035#226AT | 7.7 | 6 | 0.7 | 387 | 232 | 116 | 150 | 1 |
| 35 | 23.3 | 22 | E | HL45H-E035#226AT | 7.7 | 6 | 1 | 354 | 212 | 106 | 150 | 1 |
| 35 | 23.3 | 33 | E | HL45H-E035#336AT | 11.6 | 6 | 0.5 | 500 | 300 | 150 | 150 | 1 |
| 35 | 23.3 | 47 | E | HL45H-E035#476AT | 16.5 | 6 | 0.5 | 500 | 300 | 150 | 150 | 1 |
| 50 | 33.3 | 0.47 | C | HL45H-C050#474AT | 0.5 | 3 | 6.5 | 118 | 71 | 35 | 150 | 1 |
| 50 | 33.3 | 0.68 | C | HL45H-C050#684AT | 0.5 | 3 | 5.5 | 128 | 77 | 38 | 150 | 1 |
| 50 | 33.3 | 1 | C | HL45H-C050#105AT | 0.5 | 4 | 6 | 122 | 73 | 37 | 150 | 1 |
| 50 | 33.3 | 1.5 | C | HL45H-C050#155AT | 0.8 | 6 | 8 | 106 | 64 | 32 | 150 | 1 |
| 50 | 33.3 | 1.5 | D | HL45H-D050#155AT | 0.8 | 4.5 | 2.8 | 194 | 116 | 58 | 150 | 1 |
| 50 | 33.3 | 2.2 | C | HL45H-C050#225AT | 1.1 | 6 | 7 | 113 | 68 | 34 | 150 | 1 |
| 50 | 33.3 | 2.2 | D | HL45H-D050#225AT | 1.1 | 4.5 | 2 | 229 | 137 | 69 | 150 | 1 |
| 50 | 33.3 | 3.3 | D | HL45H-D050#335AT | 1.7 | 6 | 2 | 229 | 137 | 69 | 150 | 1 |
| 50 | 33.3 | 4.7 | D | HL45H-D050#475AT | 2.4 | 6 | 1.5 | 265 | 159 | 79 | 150 | 1 |
| 50 | 33.3 | 6.8 | D | HL45H-D050#685AT | 3.4 | 6 | 0.7 | 387 | 232 | 116 | 150 | 1 |
| 50 | 33.3 | 6.8 | E | HL45H-E050#685AT | 3.4 | 6 | 1.5 | 289 | 173 | 87 | 150 | 1 |
| 50 | 33.3 | 10 | E | HL45H-E050#106AT | 5.0 | 6 | 1.8 | 264 | 158 | 79 | 150 | 1 |

- # is the replacement character to indicate the capacity tolerance, fill in K represents +10%, M represents +20%;
- Do not use a multimeter;
- Capacity and loss measurement conditions: 100Hz, $U_{\sim}=2.2^{+0.1}V$, $U_{\sim}=1.0^{+0.5}V$, Frequency=100Hz, Series measurement
- If the ambient temperature is higher than +85 °C, the derating voltage is required. (The leakage current parameter is the reading after 5 minutes of power-on.)
- For special sizes or requirements please contact us.