

HP3 · Snap-In · 6000 h/85 °C

Standard Performances · Compact Design

> Specifications · Spezifikationen

| Items | Characteristics |
|--|---|
| Temperature range | -40°C ~ + 85°C |
| Capacitance tolerance (at 20°C) | Standard +/- 20%, -10%/+30% on request |
| Surge voltage | Repetitive max. 30 sec per 6 Minutes |
| Leakage current max. I _L (20°C, 5min) | 0.02 · C · V, [μA] or 3 mA, which is smaller. |
| Useful life | 6000 hours at 85°C |
| Field failure rate | 0.5 FIT = 0.5 · 10 ⁻⁹ Failures/hour |
| Reference standards | IEC 60384-4, JIS C 5101-4, AEC-Q200 qualified |
| Vibration | 0.75mm, 10...55Hz, 10g, 3x2h |
| Sleeve withstanding voltage | 3000 Vac/1 min between terminals bundled and plate* |
| Product Compliance | RoHS, REACH, Conflict Minerals a.o. - refer to p. 12-13 |



* Typical value using sleeve which is free from any scratches and damages

> Outline Drawings · Bauformen

Refer to page 7 for available terminal shapes and dimensions. · Auf Seite 7 finden Sie die verfügbaren Bauformen und Maße.

> Product Code · Bestellbezeichnung

Example: Series HP3 · 350 V · 1200 μF ± 20 % · 35x80 mm · 4-Pin terminal · without plate

| HP3 | | 2V | | 122 | | M | | S | | A | | S13 | | WPEC | | | | | | | | | | | | | | | |
|--------------------|---------|--|---------|------|---------|--|--|--|----|-------------------|----|------|-----|------|----|---|----|---|----|---|----|---|----|---|----|---|----|---|--|
| Type of series | | Capacitance code | | | | Terminal symbol code | | Diameter code | | Outer design code | | | | | | | | | | | | | | | | | | | |
| | | The first two digits are significant. The last digit indicates the number of following zeros in μF. | | | | R: 2-claw 6.3 mm S: 4-claw 6.3 mm C: 2-claw short 4.0 mm X: 4-claw short 4.0 mm E: 3-claw short 4.0 mm T: 2-lugs 4.5 mm | | <table border="1"> <thead> <tr> <th>Code</th> <th>ØD</th> </tr> </thead> <tbody> <tr><td>W</td><td>20</td></tr> <tr><td>X</td><td>22</td></tr> <tr><td>Y</td><td>25</td></tr> <tr><td>Z</td><td>30</td></tr> <tr><td>A</td><td>35</td></tr> <tr><td>B</td><td>40</td></tr> <tr><td>H</td><td>46</td></tr> <tr><td>C</td><td>50</td></tr> </tbody> </table> | | Code | ØD | W | 20 | X | 22 | Y | 25 | Z | 30 | A | 35 | B | 40 | H | 46 | C | 50 | None: PET sleeve and PVC plate WPEC: PET sleeve without plate Others on request | |
| Code | ØD | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| W | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Y | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Z | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H | 46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated voltage code | | | | | | Capacitance tolerance | | Length code | | | | | | | | | | | | | | | | | | | | | |
| Code | Voltage | Code | Voltage | Code | Voltage | M : ± 20% Q : -10% ~ +30% | | Code | L | Code | L | Code | L | Code | L | | | | | | | | | | | | | | |
| 1C | 16 | 2A | 100 | 2G | 400 | | | S1 | 20 | S8 | 55 | S15 | 90 | | | | | | | | | | | | | | | | |
| 1E | 25 | 2C | 160 | 420V | 420 | | | S2 | 25 | S9 | 60 | S16 | 95 | | | | | | | | | | | | | | | | |
| 1V | 35 | 2P | 180 | 2W | 450 | | | S3 | 30 | S10 | 65 | S17 | 100 | | | | | | | | | | | | | | | | |
| 1H | 50 | 2D | 200 | 2H | 500 | | | S4 | 35 | S11 | 70 | S18 | 105 | | | | | | | | | | | | | | | | |
| 1J | 63 | 2E | 250 | | | | | S5 | 40 | S12 | 75 | S19 | 110 | | | | | | | | | | | | | | | | |
| 1K | 80 | 2V | 350 | | | | | S6 | 45 | S13 | 80 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | S7 | 50 | S14 | 85 | | | | | | | | | | | | | | | | | | |

| Rated VoltageCode (Surge Voltage) V_r [V DC] | Capacitance C_r [μ F] | Ripple Current at 85°C/120Hz I_r [A RMS] | Ripple Current at 40°C/120Hz [A RMS] | ESR (typ) at 20°C/100Hz [m Ω] | Dissipation Factor at 20°C/100Hz Tan δ | DxL [mm] | Product Code # = variable value, see terminal code in the product code |
|---|------------------------------------|--|---|--|---|---------------|---|
| 16 VDC Code: 1C Surge Voltage 20 VDC | 6 800 | 1.96 | 3.72 | 51 | 0.50 | 22x25 | HP31C682M#XS2 |
| | 10 000 | 2.13 | 4.06 | 41 | 0.50 | 22x30 | HP31C103M#XS3 |
| | | 2.11 | 4.02 | 41 | 0.50 | 25x25 | HP31C103M#YS2 |
| | 15 000 | 2.92 | 5.54 | 28 | 0.50 | 22x40 | HP31C153M#XS5 |
| | | 2.77 | 5.27 | 28 | 0.50 | 25x30 | HP31C153M#YS3 |
| | 22 000 | 3.87 | 7.36 | 22 | 0.50 | 25x45 | HP31C223M#YS6 |
| | | 3.55 | 6.75 | 22 | 0.50 | 30x30 | HP31C223M#ZS3 |
| | 33 000 | 4.71 | 8.94 | 17 | 0.50 | 30x45 | HP31C333M#ZS6 |
| | | 4.53 | 8.61 | 17 | 0.50 | 35x35 | HP31C333M#AS4 |
| | 47 000 | 5.67 | 10.77 | 12 | 0.50 | 35x40 | HP31C473M#AS5 |
| 68 000 | 7.12 | 13.52 | 12 | 0.90 | 35x60 | HP31C683M#AS9 | |
| 100 000 | 8.88 | 16.86 | 10 | 1.20 | 40x60 | HP31C104M#BS9 | |
| 25 VDC Code: 1E Surge Voltage 32 VDC | 4 700 | 1.63 | 3.09 | 88 | 0.40 | 22x25 | HP31E472M#XS2 |
| | 6 800 | 2.08 | 3.95 | 70 | 0.40 | 22x30 | HP31E682M#XS3 |
| | | 2.06 | 3.91 | 70 | 0.40 | 25x25 | HP31E682M#YS2 |
| | 10 000 | 2.27 | 4.30 | 48 | 0.40 | 22x35 | HP31E103M#XS4 |
| | | 2.27 | 4.30 | 48 | 0.40 | 25x30 | HP31E103M#YS3 |
| | | 2.27 | 4.30 | 48 | 0.40 | 30x25 | HP31E103M#ZS2 |
| | 15 000 | 2.94 | 5.58 | 32 | 0.40 | 25x35 | HP31E153M#YS4 |
| | | 2.94 | 5.58 | 32 | 0.40 | 30x30 | HP31E153M#ZS3 |
| | | 2.94 | 5.58 | 32 | 0.40 | 35x25 | HP31E153M#AS2 |
| | 18 000 | 3.36 | 6.38 | 27 | 0.40 | 22x45 | HP31E183M#XS6 |
| | | 3.87 | 7.36 | 22 | 0.40 | 25x45 | HP31E223M#YS6 |
| | 22 000 | 3.75 | 7.13 | 22 | 0.40 | 30x35 | HP31E223M#ZS4 |
| | | 4.90 | 9.31 | 17 | 0.50 | 30x50 | HP31E333M#ZS7 |
| | 33 000 | 4.74 | 9.01 | 17 | 0.50 | 35x40 | HP31E333M#AS5 |
| 35 VDC Code: 1V Surge Voltage 44 VDC | 3 300 | 1.52 | 2.88 | 165 | 0.35 | 22x25 | HP31V332M#XS2 |
| | 4 700 | 1.73 | 3.28 | 115 | 0.35 | 22x30 | HP31V472M#XS3 |
| | | 1.72 | 3.26 | 115 | 0.35 | 25x25 | HP31V472M#YS2 |
| | 6 800 | 2.21 | 4.20 | 80 | 0.35 | 22x35 | HP31V682M#XS4 |
| | | 2.21 | 4.20 | 80 | 0.35 | 25x30 | HP31V682M#YS3 |
| | | 2.21 | 4.20 | 80 | 0.35 | 30x25 | HP31V682M#ZS2 |
| | 10 000 | 2.50 | 4.74 | 55 | 0.35 | 22x45 | HP31V103M#XS6 |
| | | 2.40 | 4.55 | 55 | 0.35 | 25x35 | HP31V103M#YS4 |
| | | 2.40 | 4.55 | 55 | 0.35 | 30x30 | HP31V103M#ZS3 |
| | 15 000 | 3.33 | 6.34 | 35 | 0.35 | 25x50 | HP31V153M#YS7 |
| | | 3.10 | 5.90 | 35 | 0.35 | 30x35 | HP31V153M#ZS4 |
| | | 3.10 | 5.90 | 35 | 0.35 | 35x30 | HP31V153M#AS3 |
| | 18 000 | 3.48 | 6.60 | 35 | 0.35 | 30x35 | HP31V183M#ZS4 |
| | | 3.55 | 6.75 | 30 | 0.35 | 30x40 | HP31V183M#ZS5 |
| | 20 000 | 3.34 | 6.36 | 28 | 0.35 | 30x40 | HP31V203M#ZS5 |
| | 22 000 | 4.10 | 7.80 | 25 | 0.40 | 30x45 | HP31V223M#ZS6 |
| | | 4.14 | 7.85 | 25 | 0.40 | 35x40 | HP31V223M#AS5 |
| | 27 000 | 4.48 | 8.51 | 25 | 0.45 | 35x35 | HP31V273M#AS4 |
| | 33 000 | 4.84 | 9.20 | 20 | 0.50 | 30x50 | HP31V333M#ZS7 |
| 5.14 | | 9.76 | 20 | 0.50 | 35x50 | HP31V333M#AS7 | |

Additional designs on request · Weitere Designs auf Anfrage

| Rated VoltageCode (Surge Voltage) V_r [V DC] | Capacitance C_r [μ F] | Ripple Current at 85°C/120Hz I_r [A RMS] | Ripple Current at 40°C/120Hz [A RMS] | ESR (typ) at 20°C/100Hz [m Ω] | Dissipation Factor at 20°C/100Hz Tan δ | DxL [mm] | Product Code # = variable value, see terminal code in the product code |
|--|------------------------------------|---|---|--|---|----------------|---|
| 50 VDC Code: 1H Surge Voltage 63 VDC | 2 200 | 1.24 | 2.37 | 108 | 0.30 | 22x25 | HP31H222M#XS2 |
| | | 1.62 | 3.07 | 72 | 0.30 | 22x30 | HP31H332M#XS3 |
| | 3 300 | 1.61 | 3.05 | 72 | 0.30 | 25x25 | HP31H332M#YS2 |
| | | 1.84 | 3.49 | 50 | 0.30 | 22x35 | HP31H472M#XS4 |
| | 4 700 | 1.84 | 3.49 | 50 | 0.30 | 25x30 | HP31H472M#YS3 |
| | | 2.54 | 4.83 | 35 | 0.30 | 22x50 | HP31H682M#XS7 |
| | 6 800 | 2.43 | 4.62 | 35 | 0.30 | 25x40 | HP31H682M#YS5 |
| | | 2.34 | 4.46 | 35 | 0.30 | 30x30 | HP31H682M#ZS3 |
| | 10 000 | 2.73 | 5.18 | 32 | 0.35 | 25x50 | HP31H103M#YS7 |
| | | 2.53 | 4.81 | 32 | 0.35 | 35x30 | HP31H103M#AS3 |
| | 12 000 | 2.90 | 5.51 | 31 | 0.40 | 30x40 | HP31H123M#ZS5 |
| | | 3.53 | 6.71 | 25 | 0.45 | 30x50 | HP31H153M#ZS7 |
| | 15 000 | 3.41 | 6.48 | 25 | 0.45 | 35x40 | HP31H153M#AS5 |
| | | 63 VDC Code: 1J Surge Voltage 79 VDC | 1 500 | 1.19 | 2.26 | 159 | 0.25 |
| 1.32 | 2.51 | | | 108 | 0.25 | 22x30 | HP31J222M#XS3 |
| 2 200 | 1.31 | | 2.49 | 108 | 0.25 | 25x25 | HP31J222M#YS2 |
| | 1.72 | | 3.26 | 80 | 0.25 | 22x35 | HP31J332M#XS4 |
| 3 300 | 1.72 | | 3.26 | 80 | 0.25 | 25x30 | HP31J332M#YS3 |
| | 1.72 | | 3.26 | 80 | 0.25 | 30x25 | HP31J332M#ZS2 |
| 3 900 | 1.86 | | 3.53 | 70 | 0.25 | 25x30 | HP31J392M#YS3 |
| | 2.02 | | 3.85 | 60 | 0.25 | 22x45 | HP31J472M#XS6 |
| 4 700 | 1.95 | | 3.70 | 60 | 0.25 | 25x35 | HP31J472M#YS4 |
| | 1.95 | | 3.70 | 60 | 0.25 | 30x30 | HP31J472M#ZS3 |
| 6 800 | 2.66 | | 5.06 | 40 | 0.25 | 25x50 | HP31J682M#YS7 |
| | 2.48 | | 4.71 | 40 | 0.25 | 30x35 | HP31J682M#ZS4 |
| 8 200 | 2.68 | | 5.10 | 42 | 0.25 | 35x30 | HP31J822M#AS3 |
| | 2.77 | | 5.27 | 42 | 0.35 | 30x45 | HP31J103M#ZS6 |
| 10 000 | 2.78 | 5.29 | 35 | 0.35 | 35x40 | HP31J103M#AS5 | |
| | 3.70 | 7.02 | 35 | 0.35 | 35x50 | HP31J153M#AS7 | |
| 27 000 | 5.90 | 11.20 | 20 | 0.35 | 40x80 | HP31J273M#BS13 | |
| 80 VDC Code: 1K Surge Voltage 100 VDC | 1 000 | 0.97 | 1.84 | 230 | 0.20 | 22x25 | HP31K102M#XS2 |
| | | 1.06 | 2.00 | 155 | 0.20 | 22x25 | HP31K122M#XS2 |
| | 1 200 | 1.27 | 2.41 | 155 | 0.20 | 22x30 | HP31K152M#XS3 |
| | | 1.24 | 2.37 | 105 | 0.20 | 25x25 | HP31K152M#YS2 |
| | 2 200 | 1.47 | 2.81 | 105 | 0.20 | 22x40 | HP31K222M#XS5 |
| | | 1.41 | 2.67 | 105 | 0.20 | 25x30 | HP31K222M#YS3 |
| | 3 300 | 1.98 | 3.76 | 70 | 0.25 | 22x50 | HP31K332M#XS7 |
| | | 1.89 | 3.60 | 70 | 0.25 | 25x40 | HP31K332M#YS5 |
| | 4 700 | 1.82 | 3.45 | 70 | 0.25 | 30x30 | HP31K332M#ZS3 |
| | | 2.21 | 4.20 | 50 | 0.25 | 25x50 | HP31K472M#YS7 |
| | 6 800 | 2.16 | 4.09 | 50 | 0.25 | 30x40 | HP31K472M#ZS5 |
| | | 2.06 | 3.91 | 50 | 0.25 | 35x30 | HP31K472M#AS3 |
| | 8 200 | 2.82 | 5.35 | 35 | 0.25 | 30x50 | HP31K682M#ZS7 |

Additional designs on request · Weitere Designs auf Anfrage

| Rated VoltageCode (Surge Voltage) V_r [V DC] | Capacitance C_r [μ F] | Ripple Current at 85°C/120Hz I_r [A RMS] | Ripple Current at 40°C/120Hz [A RMS] | ESR (typ) at 20°C/100Hz [m Ω] | Dissipation Factor at 20°C/100Hz Tan δ | DxL [mm] | Product Code # = variable value, see terminal code in the product code |
|---|--|--|---|--|---|------------------|---|
| 80 VDC Code: 1K Surge Voltage 100 VDC | 6 800 | 2.72 | 5.16 | 35 | 0.25 | 35x40 | HP31K682M#AS5 |
| | 8 200 | 3.32 | 6.31 | 30 | 0.30 | 30x60 | HP31K822M#ZS9 |
| | 10 000 | 3.74 | 7.11 | 25 | 0.30 | 41x50 | HP31K103M#BS7 |
| | 12 000 | 7.70 | 14.63 | 25 | 0.30 | 35x60 | HP31K123M#AS9 |
| 100 VDC Code: 2A Surge Voltage 125 VDC | 1 000 | 1.03 | 1.97 | 180 | 0.20 | 22x30 | HP32A102M#XS3 |
| | | 1.02 | 1.95 | 180 | 0.20 | 25x25 | HP32A102M#YS2 |
| | 1 500 | 1.34 | 2.55 | 120 | 0.20 | 22x35 | HP32A152M#XS4 |
| | | 1.34 | 2.55 | 120 | 0.20 | 30x25 | HP32A152M#ZS2 |
| | 2 200 | 1.62 | 3.07 | 82 | 0.20 | 22x50 | HP32A222M#XS7 |
| | | 1.55 | 2.95 | 82 | 0.20 | 25x40 | HP32A222M#YS5 |
| | | 1.49 | 2.83 | 82 | 0.20 | 30x30 | HP32A222M#ZS3 |
| | 3 300 | 2.07 | 3.93 | 60 | 0.20 | 25x50 | HP32A332M#YS7 |
| | | 2.01 | 3.83 | 60 | 0.20 | 30x40 | HP32A332M#ZS5 |
| | | 1.93 | 3.66 | 60 | 0.20 | 35x30 | HP32A332M#AS3 |
| | 4 700 | 2.33 | 4.43 | 45 | 0.25 | 30x50 | HP32A472M#ZS7 |
| | | 2.26 | 4.29 | 45 | 0.25 | 35x40 | HP32A472M#AS5 |
| | 5 600 | 2.45 | 4.66 | 40 | 0.25 | 35x40 | HP32A562M#AS5 |
| | | 2.57 | 4.90 | 40 | 0.25 | 35x45 | HP32A562M#AS6 |
| | 6 800 | 2.95 | 5.60 | 35 | 0.25 | 35x50 | HP32A682M#AS7 |
| | 160 VDC Code: 2C Surge Voltage 200 VDC | 390 | 1.65 | 3.14 | 365 | 0.15 | 22x25 |
| 470 | | 1.94 | 3.67 | 305 | 0.15 | 22x30 | HP32C471M#XS3 |
| | | 1.91 | 3.64 | 305 | 0.15 | 25x25 | HP32C471M#YS2 |
| 560 | | 2.23 | 4.25 | 255 | 0.15 | 22x35 | HP32C561M#XS4 |
| | | 2.22 | 4.22 | 255 | 0.15 | 25x30 | HP32C561M#YS3 |
| 680 | | 2.60 | 4.93 | 210 | 0.15 | 22x40 | HP32C681M#XS5 |
| | | 2.46 | 4.69 | 210 | 0.15 | 25x30 | HP32C681M#YS3 |
| | | 2.46 | 4.69 | 210 | 0.15 | 30x25 | HP32C681M#ZS2 |
| 820 | | 2.99 | 5.69 | 175 | 0.15 | 22x45 | HP32C821M#XS6 |
| | | 2.87 | 5.46 | 175 | 0.15 | 25x35 | HP32C821M#YS4 |
| | | 2.87 | 5.46 | 175 | 0.15 | 30x30 | HP32C821M#ZS3 |
| 1 000 | | 3.44 | 6.55 | 145 | 0.15 | 22x50 | HP32C102M#XS7 |
| | | 3.30 | 6.27 | 145 | 0.15 | 25x40 | HP32C102M#YS5 |
| | | 3.17 | 6.02 | 145 | 0.15 | 30x30 | HP32C102M#ZS3 |
| 1 200 | | 3.78 | 7.19 | 120 | 0.15 | 25x45 | HP32C122M#YS6 |
| | | 3.67 | 6.99 | 120 | 0.15 | 30x35 | HP32C122M#ZS4 |
| 1 500 | 4.30 | 8.17 | 95 | 0.15 | 30x40 | HP32C152M#ZS5 | |
| | 4.36 | 8.27 | 95 | 0.15 | 35x35 | HP32C152M#AS4 | |
| 1 800 | 4.92 | 9.34 | 80 | 0.15 | 30x45 | HP32C182M#ZS6 | |
| | 4.77 | 9.08 | 80 | 0.15 | 35x35 | HP32C182M#AS4 | |
| 2 200 | 4.51 | 8.57 | 95 | 0.15 | 35x40 | HP32C222M#CAS51P | |
| 3 300 | 8.11 | 15.40 | 45 | 0.20 | 41x61 | HP32C332M#BS9 | |
| 180 VDC Code: 2P Surge Voltage 225 VDC | 330 | 1.52 | 2.88 | 375 | 0.15 | 22x25 | HP32P331M#XS2 |
| | 390 | 1.76 | 3.34 | 320 | 0.15 | 22x30 | HP32P391M#XS3 |
| | | 1.74 | 3.30 | 320 | 0.15 | 25x25 | HP32P391M#YS2 |
| | 470 | 1.94 | 3.67 | 265 | 0.15 | 22x30 | HP32P471M#XS3 |
| 1.91 | | 3.64 | 265 | 0.15 | 25x25 | HP32P471M#YS2 | |

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|--|--|--|---|--|---|----------------|---|---------------|
| 180 VDC Code: 2P Surge Voltage 225 VDC | 560 | 2.23 | 4.25 | 225 | 0.15 | 22x35 | HP32P561M#XS4 | |
| | | 2.23 | 4.25 | 225 | 0.15 | 25x30 | HP32P561M#YS3 | |
| | | 2.23 | 4.25 | 225 | 0.15 | 30x25 | HP32P561M#ZS2 | |
| | 680 | 2.60 | 4.93 | 185 | 0.15 | 22x40 | HP32P681M#XS5 | |
| | | 2.59 | 4.92 | 185 | 0.15 | 25x35 | HP32P681M#YS4 | |
| | | 2.46 | 4.69 | 185 | 0.15 | 30x25 | HP32P681M#ZS2 | |
| | 820 | 2.99 | 5.69 | 155 | 0.15 | 25x40 | HP32P821M#YS5 | |
| | | 2.87 | 5.46 | 155 | 0.15 | 30x30 | HP32P821M#ZS3 | |
| | 1 000 | 3.45 | 6.57 | 125 | 0.15 | 25x45 | HP32P102M#YS6 | |
| | | 3.17 | 6.02 | 125 | 0.15 | 35x25 | HP32P102M#AS2 | |
| | 1 200 | 3.95 | 7.50 | 105 | 0.15 | 25x50 | HP32P122M#YS7 | |
| | | 3.84 | 7.29 | 105 | 0.15 | 30x40 | HP32P122M#ZS5 | |
| | | 4.49 | 8.53 | 85 | 0.15 | 30x45 | HP32P152M#ZS6 | |
| | | 4.36 | 8.27 | 85 | 0.15 | 35x35 | HP32P152M#AS4 | |
| | 1 800 | 4.95 | 9.41 | 70 | 0.15 | 35x40 | HP32P182M#AS5 | |
| | | 5.02 | 9.53 | 70 | 0.15 | 40x36 | HP32P182M#BS4 | |
| | 200 VDC Code: 2D Surge Voltage 250 VDC | 220 | 1.50 | 2.84 | 485 | 0.15 | 22x25 | HP32D221M#XS2 |
| | | 270 | 1.65 | 3.14 | 395 | 0.15 | 22x25 | HP32D271M#XS2 |
| 330 | | 1.82 | 3.45 | 325 | 0.15 | 22x25 | HP32D331M#XS2 | |
| | | 1.94 | 3.67 | 325 | 0.15 | 22x30 | HP32D331M#XS3 | |
| 390 | | 2.09 | 3.97 | 275 | 0.15 | 25x25 | HP32D391M#YS2 | |
| 470 | | 2.13 | 4.06 | 230 | 0.15 | 22x30 | HP32D471M#XS3 | |
| | | 2.11 | 4.02 | 230 | 0.15 | 25x25 | HP32D471M#YS2 | |
| | | 2.45 | 4.66 | 230 | 0.15 | 25x30 | HP32D471M#YS3 | |
| | | 2.45 | 4.66 | 230 | 0.15 | 30x25 | HP32D471M#ZS2 | |
| 560 | | 2.48 | 4.71 | 190 | 0.15 | 22x35 | HP32D561M#XS4 | |
| | | 2.45 | 4.66 | 190 | 0.15 | 25x30 | HP32D561M#YS3 | |
| 680 | | 2.87 | 5.46 | 160 | 0.15 | 22x40 | HP32D681M#XS5 | |
| | | 3.15 | 5.97 | 160 | 0.15 | 25x35 | HP32D681M#YS4 | |
| | | 3.15 | 5.97 | 160 | 0.15 | 30x30 | HP32D681M#ZS3 | |
| 820 | | 3.59 | 6.81 | 130 | 0.15 | 25x40 | HP32D821M#YS5 | |
| | | 3.44 | 6.55 | 130 | 0.15 | 30x30 | HP32D821M#ZS3 | |
| 1 000 | | 3.81 | 7.23 | 110 | 0.15 | 25x45 | HP32D102M#YS6 | |
| | | 4.00 | 7.61 | 110 | 0.15 | 30x35 | HP32D102M#ZS4 | |
| 1 200 | | 4.61 | 8.76 | 90 | 0.15 | 30x40 | HP32D122M#ZS5 | |
| | | 4.04 | 7.67 | 90 | 0.15 | 35x30 | HP32D122M#AS3 | |
| 1 500 | | 4.74 | 9.01 | 75 | 0.15 | 35x35 | HP32D152M#AS4 | |
| | 5.49 | 10.43 | 75 | 0.15 | 40x36 | HP32D152M#BS4 | | |
| 1 800 | 5.67 | 10.77 | 60 | 0.15 | 35x45 | HP32D182M#AS6 | | |
| | 6.42 | 12.21 | 60 | 0.15 | 35x50 | HP32D182M#AS7 | | |
| | 6.23 | 11.83 | 60 | 0.15 | 40x41 | HP32D182M#BS5 | | |
| 2 200 | 6.68 | 12.68 | 50 | 0.15 | 35x50 | HP32D222M#AS7 | | |
| 2 700 | 6.56 | 12.45 | 50 | 0.15 | 35x50 | HP32D272M#AS7 | | |
| 4 700 | 9.36 | 17.78 | 27 | 0.15 | 35x80 | HP32D472M#AS13 | | |

Additional designs on request · Weitere Designs auf Anfrage

| Rated VoltageCode (Surge Voltage) V_r [V DC] | Capacitance C_r [μ F] | Ripple Current at 85°C/120Hz I_r [A RMS] | Ripple Current at 40°C/120Hz [A RMS] | ESR (typ) at 20°C/100Hz [m Ω] | Dissipation Factor at 20°C/100Hz Tan δ | DxL [mm] | Product Code # = variable value, see terminal code in the product code |
|--|------------------------------------|--|---|--|---|----------------|---|
| 250 VDC Code: 2E Surge Voltage 300 VDC | 220 | 1.50 | 2.84 | 485 | 0.15 | 22x25 | HP32E221M#XS2 |
| | 270 | 1.52 | 2.88 | 395 | 0.15 | 22x25 | HP32E271M#XS2 |
| | | 1.76 | 3.34 | 395 | 0.15 | 22x30 | HP32E271M#XS3 |
| | 330 | 1.79 | 3.41 | 325 | 0.15 | 22x30 | HP32E331M#XS3 |
| | | 2.06 | 3.91 | 325 | 0.15 | 22x35 | HP32E331M#XS4 |
| | | 1.76 | 3.34 | 325 | 0.15 | 25x25 | HP32E331M#YS2 |
| | | 2.05 | 3.88 | 325 | 0.15 | 25x30 | HP32E331M#YS3 |
| | 390 | 2.24 | 4.27 | 275 | 0.15 | 22x35 | HP32E391M#XS4 |
| | | 2.24 | 4.27 | 275 | 0.15 | 25x30 | HP32E391M#YS3 |
| | 470 | 2.59 | 4.92 | 230 | 0.15 | 22x40 | HP32E471M#XS5 |
| | | 2.59 | 4.92 | 230 | 0.15 | 25x35 | HP32E471M#YS4 |
| | | 2.62 | 4.97 | 230 | 0.15 | 35x25 | HP32E471M#AS2 |
| | 560 | 2.73 | 5.18 | 190 | 0.15 | 22x45 | HP32E561M#XS6 |
| | | 2.82 | 5.35 | 190 | 0.15 | 25x35 | HP32E561M#YS4 |
| | | 2.85 | 5.41 | 190 | 0.15 | 30x30 | HP32E561M#ZS3 |
| | 680 | 3.40 | 6.46 | 160 | 0.15 | 22x50 | HP32E681M#XS7 |
| | | 3.42 | 6.50 | 160 | 0.15 | 25x45 | HP32E681M#YS6 |
| | | 2.86 | 5.43 | 160 | 0.15 | 30x30 | HP32E681M#ZS3 |
| | 820 | 3.44 | 6.55 | 130 | 0.15 | 25x45 | HP32E821M#YS6 |
| | | 3.31 | 6.29 | 130 | 0.15 | 30x35 | HP32E821M#ZS4 |
| | 1 000 | 4.21 | 8.01 | 110 | 0.15 | 30x40 | HP32E102M#ZS5 |
| | | 4.27 | 8.11 | 110 | 0.15 | 35x35 | HP32E102M#AS4 |
| | 1 200 | 4.39 | 8.34 | 90 | 0.15 | 30x45 | HP32E122M#ZS6 |
| | | 4.84 | 9.20 | 90 | 0.15 | 35x40 | HP32E122M#AS5 |
| | 1 500 | 5.65 | 10.75 | 75 | 0.15 | 35x45 | HP32E152M#AS6 |
| | | 5.82 | 11.06 | 75 | 0.15 | 40x41 | HP32E152M#BS5 |
| | 1 600 | 5.23 | 9.93 | 72 | 0.15 | 30x60 | HP32E162M#ZS9 |
| | 1 800 | 6.42 | 12.21 | 60 | 0.15 | 35x50 | HP32E182M#AS7 |
| | | 6.72 | 12.77 | 60 | 0.15 | 40x51 | HP32E182M#BS7 |
| | 2 100 | 6.94 | 13.19 | 50 | 0.15 | 30x80 | HP32E212M#ZS13 |
| 2 200 | 6.48 | 12.31 | 50 | 0.15 | 35x60 | HP32E222M#AS9 | |
| 2 300 | 7.46 | 14.17 | 50 | 0.15 | 30x85 | HP32E232M#ZS14 | |
| 2 700 | 8.67 | 16.47 | 45 | 0.15 | 30x100 | HP32E272M#ZS17 | |
| 350 VDC Code: 2V Surge Voltage 400 VDC | 100 | 0.84 | 1.58 | 1065 | 0.15 | 22x25 | HP32V101M#XS2 |
| | 120 | 0.92 | 1.76 | 885 | 0.15 | 22x25 | HP32V121M#XS2 |
| | | 0.97 | 1.84 | 885 | 0.15 | 25x25 | HP32V121M#YS2 |
| | 150 | 1.09 | 2.07 | 710 | 0.15 | 22x30 | HP32V151M#XS3 |
| | | 1.08 | 2.05 | 710 | 0.15 | 25x25 | HP32V151M#YS2 |
| | 180 | 1.20 | 2.28 | 590 | 0.15 | 22x30 | HP32V181M#XS3 |
| | | 1.27 | 2.41 | 590 | 0.15 | 22x35 | HP32V181M#XS4 |
| | | 1.19 | 2.26 | 590 | 0.15 | 25x25 | HP32V181M#YS2 |
| | | 1.27 | 2.41 | 590 | 0.15 | 30x25 | HP32V181M#ZS2 |
| | 220 | 1.41 | 2.67 | 485 | 0.15 | 22x35 | HP32V221M#XS4 |
| | | 1.40 | 2.65 | 485 | 0.15 | 25x30 | HP32V221M#YS3 |
| | | 1.41 | 2.67 | 485 | 0.15 | 30x25 | HP32V221M#ZS2 |

Additional designs on request · Weitere Designs auf Anfrage

| Rated VoltageCode (Surge Voltage) V_r [V DC] | Capacitance C_r [μ F] | Ripple Current at 85°C/120Hz I_r [A RMS] | Ripple Current at 40°C/120Hz [A RMS] | ESR (typ) at 20°C/100Hz [m Ω] | Dissipation Factor at 20°C/100Hz Tan δ | DxL [mm] | Product Code # = variable value, see terminal code in the product code |
|--|------------------------------------|--|---|--|---|----------------|---|
| 350 VDC Code: 2V Surge Voltage 400 VDC | 270 | 1.73 | 3.28 | 395 | 0.15 | 22x45 | HP32V271M#XS6 |
| | | 1.64 | 3.11 | 395 | 0.15 | 25x35 | HP32V271M#YS4 |
| | | 1.55 | 2.95 | 395 | 0.15 | 30x25 | HP32V271M#ZS2 |
| | 330 | 1.97 | 3.74 | 325 | 0.15 | 25x40 | HP32V331M#YS5 |
| | | 1.82 | 3.45 | 325 | 0.15 | 30x30 | HP32V331M#ZS3 |
| | | 1.82 | 3.45 | 325 | 0.15 | 35x25 | HP32V331M#AS2 |
| | 390 | 2.16 | 4.09 | 275 | 0.15 | 25x45 | HP32V391M#YS6 |
| | | 2.08 | 3.95 | 275 | 0.15 | 30x35 | HP32V391M#ZS4 |
| | | 2.09 | 3.97 | 275 | 0.15 | 35x30 | HP32V391M#AS3 |
| | 470 | 2.28 | 4.32 | 230 | 0.15 | 30x35 | HP32V471M#ZS4 |
| | | 2.30 | 4.37 | 230 | 0.15 | 35x30 | HP32V471M#AS3 |
| | 560 | 2.73 | 5.18 | 190 | 0.15 | 30x45 | HP32V561M#ZS6 |
| | | 2.63 | 4.99 | 190 | 0.15 | 35x35 | HP32V561M#AS4 |
| | 680 | 3.04 | 5.76 | 160 | 0.15 | 35x40 | HP32V681M#AS5 |
| | | 3.17 | 6.02 | 160 | 0.15 | 35x45 | HP32V681M#AS6 |
| | | 3.19 | 6.06 | 160 | 0.15 | 40x41 | HP32V681M#BS5 |
| | 1 000 | 4.28 | 8.13 | 110 | 0.15 | 35x50 | HP32V102M#AS7 |
| | | 4.18 | 7.94 | 110 | 0.15 | 40x51 | HP32V102M#BS7 |
| | 1 200 | 4.86 | 9.24 | 90 | 0.15 | 35x75 | HP32V122M#AS12 |
| | | 4.88 | 9.28 | 90 | 0.15 | 40x61 | HP32V122M#BS9 |
| 1 500 | 5.58 | 10.59 | 78 | 0.15 | 35x80 | HP32V152M#AS13 | |
| | 5.52 | 10.49 | 78 | 0.15 | 40x71 | HP32V152M#BS11 | |
| 1 800 | 6.44 | 12.24 | 65 | 0.15 | 40x80 | HP32V182M#BS13 | |
| 2 200 | 7.95 | 15.11 | 50 | 0.15 | 40x110 | HP32V222M#BS19 | |
| 400 VDC Code: 2G Surge Voltage 450 VDC | 82 | 0.89 | 1.69 | 1259 | 0.20 | 20x25 | HP32G820M#WS2 |
| | | 0.91 | 1.74 | 1259 | 0.20 | 22x25 | HP32G820M#XS2 |
| | 100 | 0.98 | 1.86 | 1065 | 0.20 | 20x25 | HP32G101M#WS2 |
| | | 1.01 | 1.93 | 1065 | 0.20 | 22x25 | HP32G101M#XS2 |
| | | 1.06 | 2.00 | 1065 | 0.20 | 25x25 | HP32G101M#YS2 |
| | 120 | 1.14 | 2.18 | 885 | 0.20 | 20x30 | HP32G121M#WS3 |
| | | 1.10 | 2.09 | 885 | 0.20 | 22x25 | HP32G121M#XS2 |
| | | 1.17 | 2.21 | 885 | 0.20 | 25x25 | HP32G121M#YS2 |
| | 140 | 1.25 | 2.39 | 765 | 0.20 | 25x25 | HP32G141M#YS2 |
| | | 1.36 | 2.60 | 710 | 0.20 | 20x35 | HP32G151M#WS4 |
| | 150 | 1.32 | 2.51 | 710 | 0.20 | 22x30 | HP32G151M#XS3 |
| | | 1.30 | 2.46 | 710 | 0.20 | 25x25 | HP32G151M#YS2 |
| | | 1.39 | 2.63 | 710 | 0.20 | 30x25 | HP32G151M#ZS2 |
| | 180 | 1.45 | 2.76 | 590 | 0.20 | 22x30 | HP32G181M#XS3 |
| | | 1.61 | 3.05 | 590 | 0.20 | 22x40 | HP32G181M#XS5 |
| | | 1.42 | 2.70 | 590 | 0.20 | 25x25 | HP32G181M#YS2 |
| | 220 | 1.69 | 3.22 | 485 | 0.20 | 22x35 | HP32G221M#XS4 |
| | | 1.94 | 3.67 | 485 | 0.20 | 22x50 | HP32G221M#XS7 |
| | | 1.67 | 3.18 | 485 | 0.20 | 25x30 | HP32G221M#YS3 |
| | | 1.86 | 3.53 | 485 | 0.20 | 25x40 | HP32G221M#YS5 |
| 1.67 | | 3.18 | 485 | 0.20 | 30x25 | HP32G221M#ZS2 | |

Additional designs on request · Weitere Designs auf Anfrage

| Rated VoltageCode (Surge Voltage) V_r [V DC] | Capacitance C_r [μ F] | Ripple Current at 85°C/120Hz I_r [A RMS] | Ripple Current at 40°C/120Hz [A RMS] | ESR (typ) at 20°C/100Hz [m Ω] | Dissipation Factor at 20°C/100Hz Tan δ | DxL [mm] | Product Code # = variable value, see terminal code in the product code |
|--|------------------------------------|--|---|--|---|-------------|---|
| 400 VDC Code: 2G Surge Voltage 450 VDC | 270 | 1.97 | 3.74 | 395 | 0.20 | 22x30 | HP32G271M#XS3 |
| | | 2.07 | 3.93 | 395 | 0.20 | 22x45 | HP32G271M#XS6 |
| | | 1.96 | 3.72 | 395 | 0.20 | 25x35 | HP32G271M#YS4 |
| | | 2.07 | 3.93 | 395 | 0.20 | 25x40 | HP32G271M#YS5 |
| | | 2.16 | 4.09 | 395 | 0.20 | 25x45 | HP32G271M#YS6 |
| | | 1.86 | 3.53 | 395 | 0.20 | 30x25 | HP32G271M#ZS2 |
| | 330 | 2.09 | 3.97 | 395 | 0.20 | 30x35 | HP32G271M#ZS4 |
| | | 2.39 | 4.53 | 325 | 0.20 | 22x50 | HP32G331M#XS7 |
| | | 2.28 | 4.32 | 325 | 0.20 | 25x40 | HP32G331M#YS5 |
| | | 2.49 | 4.72 | 325 | 0.20 | 25x50 | HP32G331M#YS7 |
| | | 2.18 | 4.14 | 325 | 0.20 | 30x30 | HP32G331M#ZS3 |
| | | 2.29 | 4.35 | 325 | 0.20 | 30x35 | HP32G331M#ZS4 |
| | 390 | 2.18 | 4.14 | 325 | 0.20 | 35x25 | HP32G331M#AS2 |
| | | 2.48 | 4.71 | 275 | 0.20 | 25x40 | HP32G391M#YS5 |
| | | 2.60 | 4.93 | 275 | 0.20 | 25x45 | HP32G391M#YS6 |
| | | 2.71 | 5.14 | 275 | 0.20 | 25x50 | HP32G391M#YS7 |
| | | 2.50 | 4.74 | 275 | 0.20 | 30x35 | HP32G391M#ZS4 |
| | | 2.75 | 5.23 | 275 | 0.20 | 30x45 | HP32G391M#ZS6 |
| | 470 | 2.38 | 4.51 | 275 | 0.20 | 35x25 | HP32G391M#AS2 |
| | | 2.66 | 5.06 | 275 | 0.20 | 35x35 | HP32G391M#AS4 |
| | | 2.97 | 5.64 | 230 | 0.20 | 25x50 | HP32G471M#YS7 |
| | | 2.87 | 5.46 | 230 | 0.20 | 30x40 | HP32G471M#ZS5 |
| | | 3.18 | 6.04 | 230 | 0.20 | 30x50 | HP32G471M#ZS7 |
| | | 2.75 | 5.23 | 230 | 0.20 | 35x30 | HP32G471M#AS3 |
| | 560 | 3.04 | 5.76 | 230 | 0.20 | 35x40 | HP32G471M#AS5 |
| | | 3.28 | 6.23 | 190 | 0.20 | 30x45 | HP32G561M#ZS6 |
| | | 3.41 | 6.48 | 190 | 0.20 | 30x50 | HP32G561M#ZS7 |
| | | 3.16 | 6.00 | 190 | 0.20 | 35x35 | HP32G561M#AS4 |
| | | 3.44 | 6.55 | 190 | 0.20 | 35x45 | HP32G561M#AS6 |
| | | 3.48 | 6.60 | 190 | 0.20 | 40x41 | HP32G561M#BS5 |
| | 620 | 3.32 | 6.31 | 175 | 0.20 | 35x35 | HP32G621M#AS4 |
| | | 3.60 | 6.83 | 160 | 0.20 | 30x45 | HP32G681M#ZS6 |
| | | 3.91 | 7.43 | 160 | 0.20 | 30x55 | HP32G681M#ZS8 |
| | | 3.64 | 6.92 | 160 | 0.20 | 35x40 | HP32G681M#AS5 |
| | | 4.24 | 8.05 | 160 | 0.20 | 35x60 | HP32G681M#AS9 |
| | | 4.05 | 7.69 | 160 | 0.20 | 40x35 | HP32G681M#BS4 |
| | 680 | 4.25 | 8.06 | 150 | 0.20 | 35x50 | HP32G771M#AS7 |
| | | 3.80 | 7.22 | 130 | 0.20 | 30x60 | HP32G821M#ZS9 |
| | | 4.17 | 7.92 | 130 | 0.20 | 35x45 | HP32G821M#AS6 |
| | | 4.64 | 8.82 | 130 | 0.20 | 35x60 | HP32G821M#AS9 |
| | | 4.53 | 8.61 | 130 | 0.20 | 40x51 | HP32G821M#BS7 |
| | | 4.47 | 8.48 | 130 | 0.20 | 35x50 | HP32G871M#AS7 |
| | 770 | 4.79 | 9.10 | 110 | 0.20 | 35x50 | HP32G102M#AS7 |
| | | 5.13 | 9.74 | 110 | 0.20 | 35x60 | HP32G102M#AS9 |
| | | 4.57 | 8.68 | 110 | 0.20 | 40x50 | HP32G102M#BS7 |
| | 820 | 5.13 | 9.74 | 110 | 0.20 | 35x60 | HP32G112M#AS9 |
| | | 5.48 | 10.41 | 110 | 0.20 | 35x81 | HP32G112M#AS13 |

Additional designs on request · Weitere Designs auf Anfrage

| Rated VoltageCode (Surge Voltage) V_r [V DC] | Capacitance C_r [μ F] | Ripple Current at 85°C/120Hz I_r [A RMS] | Ripple Current at 40°C/120Hz [A RMS] | ESR (typ) at 20°C/100Hz [m Ω] | Dissipation Factor at 20°C/100Hz Tan δ | DxL [mm] | Product Code # = variable value, see terminal code in the product code |
|--|------------------------------------|--|---|--|---|-----------------|---|
| 400 VDC Code: 2G Surge Voltage 450 VDC | 1 200 | 4.86 | 9.24 | 100 | 0.20 | 35x75 | HP32G122M#AS12 |
| | | 4.72 | 8.97 | 100 | 0.20 | 40x56 | HP32G122M#BS8 |
| | | 4.91 | 9.35 | 90 | 0.20 | 40x60 | HP32G122M#BS9 |
| | | 5.04 | 9.57 | 90 | 0.20 | 40x76 | HP32G122M#BS12 |
| | 1 400 | 6.23 | 11.83 | 80 | 0.20 | 35x100 | HP32G142M#AS17 |
| | | 6.82 | 12.96 | 80 | 0.20 | 40x80 | HP32G142M#BS13 |
| | 1 500 | 6.45 | 12.24 | 75 | 0.20 | 35x100 | HP32G152M#AS17 |
| | | 5.64 | 10.70 | 75 | 0.20 | 40x76 | HP32G152M#BS12 |
| | 1 600 | 6.58 | 12.50 | 75 | 0.20 | 40x81 | HP32G152M#BS13 |
| | | 6.88 | 13.07 | 70 | 0.20 | 40x60 | HP32G162M#BS9 |
| | 1 800 | 6.88 | 13.07 | 70 | 0.20 | 40x85 | HP32G162M#BS14 |
| | | 8.00 | 15.19 | 62 | 0.20 | 40x101 | HP32G182M#BS17 |
| | 2 000 | 8.22 | 15.61 | 60 | 0.20 | 45x76 | HP32G202M#HS12 |
| | 2 100 | 9.58 | 18.21 | 51 | 0.20 | 40x101 | HP32G212M#BS17 |
| 420 VDC Code: 420V Surge Voltage 470 VDC | 68 | 0.80 | 1.53 | 1620 | 0.20 | 20x25 | HP3420V680M#WS2 |
| | | 0.84 | 1.58 | 1620 | 0.20 | 22x25 | HP3420V680M#XS2 |
| | 82 | 0.89 | 1.69 | 1340 | 0.20 | 20x25 | HP3420V820M#WS2 |
| | | 0.95 | 1.79 | 1340 | 0.20 | 22x30 | HP3420V820M#XS3 |
| | 100 | 1.05 | 1.99 | 1100 | 0.20 | 20x30 | HP3420V101M#WS3 |
| | | 1.01 | 1.93 | 1100 | 0.20 | 22x25 | HP3420V101M#XS2 |
| | 120 | 1.08 | 2.05 | 1100 | 0.20 | 22x30 | HP3420V101M#XS3 |
| | | 1.14 | 2.18 | 915 | 0.20 | 20x30 | HP3420V121M#WS3 |
| | | 1.22 | 2.32 | 915 | 0.20 | 20x35 | HP3420V121M#WS4 |
| | | 1.11 | 2.11 | 915 | 0.20 | 22x25 | HP3420V121M#XS2 |
| | | 1.24 | 2.37 | 915 | 0.20 | 22x35 | HP3420V121M#XS4 |
| | | 1.17 | 2.21 | 915 | 0.20 | 25x25 | HP3420V121M#YS2 |
| | 150 | 1.36 | 2.60 | 735 | 0.20 | 20x35 | HP3420V151M#WS4 |
| | | 1.32 | 2.51 | 735 | 0.20 | 22x30 | HP3420V151M#XS3 |
| | | 1.46 | 2.78 | 735 | 0.20 | 22x40 | HP3420V151M#XS5 |
| | | 1.30 | 2.46 | 735 | 0.20 | 25x25 | HP3420V151M#YS2 |
| | | 1.45 | 2.76 | 735 | 0.20 | 25x35 | HP3420V151M#YS4 |
| | 180 | 1.53 | 2.90 | 610 | 0.20 | 22x35 | HP3420V181M#XS4 |
| | | 1.67 | 3.18 | 610 | 0.20 | 22x45 | HP3420V181M#XS6 |
| | | 1.52 | 2.88 | 610 | 0.20 | 25x30 | HP3420V181M#YS3 |
| | | 1.67 | 3.18 | 610 | 0.20 | 25x40 | HP3420V181M#YS5 |
| | | 1.52 | 2.88 | 610 | 0.20 | 30x25 | HP3420V181M#ZS2 |
| | 220 | 1.61 | 3.05 | 610 | 0.20 | 35x25 | HP3420V181M#AS2 |
| | | 1.78 | 3.39 | 500 | 0.20 | 22x40 | HP3420V221M#XS5 |
| | | 1.87 | 3.55 | 500 | 0.20 | 22x45 | HP3420V221M#XS6 |
| | | 1.77 | 3.37 | 500 | 0.20 | 25x35 | HP3420V221M#YS4 |
| | | 1.94 | 3.67 | 500 | 0.20 | 25x45 | HP3420V221M#YS6 |
| | | 1.67 | 3.18 | 500 | 0.20 | 30x25 | HP3420V221M#ZS2 |
| 270 | 1.78 | 3.39 | 500 | 0.20 | 30x30 | HP3420V221M#ZS3 | |
| | 2.07 | 3.93 | 407 | 0.20 | 22x45 | HP3420V271M#XS6 | |
| | 1.95 | 3.70 | 407 | 0.20 | 25x35 | HP3420V271M#YS4 | |
| | | 1.97 | 3.74 | 407 | 0.20 | 30x30 | HP3420V271M#ZS3 |

Additional designs on request · Weitere Designs auf Anfrage

| Rated VoltageCode (Surge Voltage) V_r [V DC] | Capacitance C_r [μ F] | Ripple Current at 85°C/120Hz I_r [A RMS] | Ripple Current at 40°C/120Hz [A RMS] | ESR (typ) at 20°C/100Hz [m Ω] | Dissipation Factor at 20°C/100Hz Tan δ | DxL [mm] | Product Code # = variable value, see terminal code in the product code | |
|--|--|--|---|--|---|-------------|---|---------------|
| 420 VDC Code: 420V Surge Voltage 470 VDC | 270 | 2.00 | 3.81 | 407 | 0.20 | 35x25 | HP3420V271M#AS2 | |
| | | 2.23 | 4.25 | 407 | 0.20 | 25x50 | HP3420V271M#YS7 | |
| | 330 | 2.39 | 4.53 | 335 | 0.20 | 25x45 | HP3420V331M#YS6 | |
| | | 2.29 | 4.35 | 335 | 0.20 | 30x35 | HP3420V331M#ZS4 | |
| | | 2.18 | 4.14 | 335 | 0.20 | 35x25 | HP3420V331M#AS2 | |
| | | 2.45 | 4.66 | 335 | 0.20 | 35x35 | HP3420V331M#AS4 | |
| | 390 | 2.71 | 5.14 | 283 | 0.20 | 25x50 | HP3420V391M#YS7 | |
| | | 2.50 | 4.74 | 283 | 0.20 | 30x35 | HP3420V391M#ZS4 | |
| | | 2.85 | 5.41 | 283 | 0.20 | 30x50 | HP3420V391M#ZS7 | |
| | | 2.51 | 4.76 | 283 | 0.20 | 35x30 | HP3420V391M#AS3 | |
| | | 2.76 | 5.25 | 283 | 0.20 | 35x40 | HP3420V391M#AS5 | |
| | 470 | 2.87 | 5.46 | 235 | 0.20 | 30x40 | HP3420V471M#ZS5 | |
| | | 3.00 | 5.71 | 235 | 0.20 | 30x45 | HP3420V471M#ZS6 | |
| | | 2.50 | 4.75 | 240 | 0.20 | 35x30 | HP3420V471M#AS3 | |
| | | 2.89 | 5.50 | 235 | 0.20 | 35x35 | HP3420V471M#AS4 | |
| | | 3.03 | 5.75 | 235 | 0.20 | 35x40 | HP3420V471M#AS5 | |
| | | 3.17 | 6.02 | 235 | 0.20 | 35x45 | HP3420V471M#AS6 | |
| | | 3.28 | 6.23 | 235 | 0.20 | 35x50 | HP3420V471M#AS7 | |
| | 560 | 3.18 | 6.04 | 235 | 0.20 | 40x41 | HP3420V471M#BS5 | |
| | | 3.41 | 6.48 | 200 | 0.20 | 30x50 | HP3420V561M#ZS7 | |
| | | 3.31 | 6.29 | 200 | 0.20 | 35x40 | HP3420V561M#AS5 | |
| | | 3.44 | 6.55 | 200 | 0.20 | 35x45 | HP3420V561M#AS6 | |
| | 680 | 3.60 | 6.83 | 200 | 0.20 | 35x50 | HP3420V561M#AS7 | |
| | | 3.75 | 7.13 | 170 | 0.20 | 30x50 | HP3420V681M#ZS7 | |
| | | 3.80 | 7.22 | 165 | 0.20 | 35x45 | HP3420V681M#AS6 | |
| | 820 | 3.95 | 7.50 | 165 | 0.20 | 35x50 | HP3420V681M#AS7 | |
| | | 3.84 | 7.29 | 135 | 0.20 | 30x75 | HP3420V821M#ZS12 | |
| | | 4.33 | 8.24 | 135 | 0.20 | 35x50 | HP3420V821M#AS7 | |
| | 1 000 | 4.44 | 8.45 | 112 | 0.20 | 35x75 | HP3420V102M#AS12 | |
| | | 4.30 | 8.17 | 112 | 0.20 | 40x56 | HP3420V102M#BS8 | |
| | | 4.48 | 8.50 | 112 | 0.20 | 40x61 | HP3420V102M#BS9 | |
| | 1 200 | 4.99 | 9.49 | 135 | 0.20 | 35x80 | HP3420V122M#AS13 | |
| | | 5.49 | 10.43 | 100 | 0.20 | 35x100 | HP3420V122M#AS17 | |
| | | 5.05 | 9.59 | 100 | 0.20 | 40x76 | HP3420V122M#BS12 | |
| | 1 500 | 5.96 | 11.33 | 75 | 0.20 | 40x86 | HP3420V152M#BS14 | |
| | | 7.12 | 13.52 | 80 | 0.20 | 45x76 | HP3420V152M#HS12 | |
| | 1 800 | 6.95 | 13.21 | 70 | 0.20 | 40x101 | HP3420V182M#BS17 | |
| | | 7.79 | 14.80 | 70 | 0.20 | 45x76 | HP3420V182M#HS12 | |
| | 2 000 | 8.22 | 15.61 | 60 | 0.20 | 45x76 | HP3420V202M#HS12 | |
| | 450 VDC Code: 2W Surge Voltage 500 VDC | 56 | 0.74 | 1.40 | 1965 | 0.20 | 20x25 | HP32W560M#WS2 |
| | | 68 | 0.80 | 1.53 | 1620 | 0.20 | 20x25 | HP32W680M#WS2 |
| | | 82 | 0.89 | 1.69 | 1340 | 0.20 | 20x25 | HP32W820M#WS2 |
| 0.95 | | | 1.79 | 1340 | 0.20 | 20x30 | HP32W820M#WS3 | |
| 0.91 | | | 1.74 | 1340 | 0.20 | 22x25 | HP32W820M#XS2 | |

Additional designs on request · Weitere Designs auf Anfrage

| Rated VoltageCode (Surge Voltage) V_r [V DC] | Capacitance C_r [μ F] | Ripple Current at 85°C/120Hz I_r [A RMS] | Ripple Current at 40°C/120Hz [A RMS] | ESR (typ) at 20°C/100Hz [m Ω] | Dissipation Factor at 20°C/100Hz Tan δ | DxL [mm] | Product Code # = variable value, see terminal code in the product code |
|---|------------------------------------|--|---|--|---|-------------|---|
| 450 VDC Code: 2W Surge Voltage 500 VDC | 82 | 0.98 | 1.86 | 1340 | 0.20 | 22x30 | HP32W820M#XS3 |
| | | 0.97 | 1.84 | 1340 | 0.20 | 25x25 | HP32W820M#YS2 |
| | 100 | 1.05 | 1.99 | 1100 | 0.20 | 20x30 | HP32W101M#WS3 |
| | | 1.01 | 1.93 | 1100 | 0.20 | 22x25 | HP32W101M#XS2 |
| | | 1.06 | 2.00 | 1100 | 0.20 | 25x25 | HP32W101M#YS2 |
| | | 1.13 | 2.16 | 1100 | 0.20 | 25x30 | HP32W101M#YS3 |
| | | 1.13 | 2.16 | 1100 | 0.20 | 30x25 | HP32W101M#ZS2 |
| | | 1.22 | 2.32 | 915 | 0.20 | 20x35 | HP32W121M#WS4 |
| | 120 | 1.11 | 2.11 | 915 | 0.20 | 22x25 | HP32W121M#XS2 |
| | | 1.31 | 2.49 | 915 | 0.20 | 22x40 | HP32W121M#XS5 |
| | | 1.17 | 2.21 | 915 | 0.20 | 25x25 | HP32W121M#YS2 |
| | | 1.24 | 2.37 | 915 | 0.20 | 30x25 | HP32W121M#ZS2 |
| | | 1.32 | 2.51 | 735 | 0.20 | 22x30 | HP32W151M#XS3 |
| | 150 | 1.39 | 2.63 | 735 | 0.20 | 22x35 | HP32W151M#XS4 |
| | | 1.53 | 2.90 | 735 | 0.20 | 22x45 | HP32W151M#XS6 |
| | | 1.30 | 2.47 | 735 | 0.20 | 25x25 | HP32W151M#YS2 |
| | | 1.39 | 2.63 | 735 | 0.20 | 25x30 | HP32W151M#YS3 |
| | | 1.47 | 2.81 | 735 | 0.20 | 25x35 | HP32W151M#YS4 |
| | | 1.39 | 2.63 | 735 | 0.20 | 30x25 | HP32W151M#ZS2 |
| | | 1.47 | 2.81 | 735 | 0.20 | 30x30 | HP32W151M#ZS3 |
| | | 1.53 | 2.90 | 610 | 0.20 | 22x35 | HP32W181M#XS4 |
| | 180 | 1.76 | 3.34 | 610 | 0.20 | 22x50 | HP32W181M#XS7 |
| | | 1.52 | 2.88 | 610 | 0.20 | 25x30 | HP32W181M#YS3 |
| | | 1.67 | 3.18 | 610 | 0.20 | 25x40 | HP32W181M#YS5 |
| | | 1.52 | 2.88 | 610 | 0.20 | 30x25 | HP32W181M#ZS2 |
| | | 1.61 | 3.05 | 610 | 0.20 | 30x30 | HP32W181M#ZS3 |
| | | 1.61 | 3.05 | 610 | 0.20 | 35x25 | HP32W181M#AS2 |
| | 220 | 1.78 | 3.39 | 500 | 0.20 | 22x40 | HP32W221M#XS5 |
| | | 1.77 | 3.37 | 500 | 0.20 | 25x35 | HP32W221M#YS4 |
| | | 1.94 | 3.67 | 500 | 0.20 | 25x45 | HP32W221M#YS6 |
| | | 1.67 | 3.18 | 500 | 0.20 | 30x25 | HP32W221M#ZS2 |
| | | 1.89 | 3.60 | 500 | 0.20 | 30x35 | HP32W221M#ZS4 |
| | 270 | 2.07 | 3.93 | 407 | 0.20 | 22x45 | HP32W271M#XS6 |
| | | 2.06 | 3.91 | 407 | 0.20 | 25x40 | HP32W271M#YS5 |
| | | 2.16 | 4.09 | 407 | 0.20 | 25x45 | HP32W271M#YS6 |
| | | 1.97 | 3.74 | 407 | 0.20 | 30x30 | HP32W271M#ZS3 |
| | | 2.19 | 4.16 | 407 | 0.20 | 30x40 | HP32W271M#ZS5 |
| | | 1.97 | 3.74 | 407 | 0.20 | 35x25 | HP32W271M#AS2 |
| | | 2.22 | 4.22 | 407 | 0.20 | 35x35 | HP32W271M#AS4 |
| | 330 | 2.27 | 4.30 | 340 | 0.20 | 25x40 | HP32W331M#YS5 |
| | | 2.49 | 4.72 | 335 | 0.20 | 25x50 | HP32W331M#YS7 |
| | | 2.29 | 4.35 | 335 | 0.20 | 30x35 | HP32W331M#ZS4 |
| | | 2.52 | 4.79 | 335 | 0.20 | 30x45 | HP32W331M#ZS6 |
| | | 2.18 | 4.14 | 335 | 0.20 | 35x25 | HP32W331M#AS2 |
| | | 2.45 | 4.66 | 335 | 0.20 | 35x35 | HP32W331M#AS4 |

Additional designs on request · Weitere Designs auf Anfrage

| Rated VoltageCode (Surge Voltage) V_r [V DC] | Capacitance C_r [µF] | Ripple Current at 85°C/120Hz I_r [A RMS] | Ripple Current at 40°C/120Hz [A RMS] | ESR (typ) at 20°C/100Hz [mΩ] | Dissipation Factor at 20°C/100Hz Tan δ | DxL [mm] | Product Code # = variable value, see terminal code in the product code | |
|---|------------------------------|--|---|---------------------------------------|--|-------------|---|----------------|
| 450 VDC Code: 2W Surge Voltage 500 VDC | 390 | 2.71 | 5.14 | 283 | 0.20 | 25x50 | HP32W391M#YS7 | |
| | | 2.50 | 4.74 | 283 | 0.20 | 30x35 | HP32W391M#ZS4 | |
| | | 2.73 | 5.18 | 283 | 0.20 | 30x45 | HP32W391M#ZS6 | |
| | | 2.51 | 4.76 | 283 | 0.20 | 35x30 | HP32W391M#AS3 | |
| | | 2.64 | 5.02 | 283 | 0.20 | 35x35 | HP32W391M#AS4 | |
| | | 2.76 | 5.25 | 283 | 0.20 | 35x40 | HP32W391M#AS5 | |
| | 470 | 2.87 | 5.46 | 235 | 0.20 | 30x40 | HP32W471M#ZS5 | |
| | | 3.00 | 5.71 | 235 | 0.20 | 30x45 | HP32W471M#ZS6 | |
| | | 3.12 | 5.94 | 235 | 0.20 | 30x50 | HP32W471M#ZS7 | |
| | | 2.89 | 5.50 | 235 | 0.20 | 35x35 | HP32W471M#AS4 | |
| | | 3.03 | 5.75 | 235 | 0.20 | 35x40 | HP32W471M#AS5 | |
| | | 3.17 | 6.02 | 235 | 0.20 | 35x45 | HP32W471M#AS6 | |
| | 560 | 3.18 | 6.04 | 235 | 0.20 | 40x41 | HP32W471M#BS5 | |
| | | 3.41 | 6.48 | 200 | 0.20 | 30x50 | HP32W561M#ZS7 | |
| | | 3.16 | 6.00 | 200 | 0.20 | 35x36 | HP32W561M#AL36 | |
| | | 3.31 | 6.29 | 200 | 0.20 | 35x40 | HP32W561M#AS5 | |
| | | 3.44 | 6.55 | 200 | 0.20 | 35x45 | HP32W561M#AS6 | |
| | | 3.41 | 6.48 | 200 | 0.20 | 35x50 | HP32W561M#ZS7 | |
| | 630 | 3.75 | 7.13 | 200 | 0.20 | 40x51 | HP32W561M#BS7 | |
| | | 4.74 | 9.01 | 110 | 0.20 | 40x51 | HP32W561M#BS7CCR | |
| | | 4.04 | 7.67 | 170 | 0.20 | 30x60 | HP32W631M#ZS9 | |
| | 680 | 3.45 | 6.57 | 170 | 0.20 | 35x50 | HP32W631M#AS7 | |
| | | 3.36 | 6.38 | 170 | 0.20 | 40x41 | HP32W631M#BS5 | |
| | | 3.75 | 7.13 | 170 | 0.20 | 30x51 | HP32W681M#ZS7 | |
| | 820 | 4.19 | 7.96 | 165 | 0.20 | 30x75 | HP32W681M#ZS12 | |
| | | 3.80 | 7.22 | 165 | 0.20 | 35x45 | HP32W681M#AS6 | |
| | | 3.94 | 7.48 | 165 | 0.20 | 35x50 | HP32W681M#AS7 | |
| | | 4.24 | 8.05 | 165 | 0.20 | 35x60 | HP32W681M#AS9 | |
| | | 4.13 | 7.84 | 165 | 0.20 | 40x51 | HP32W681M#BS7 | |
| | 1 000 | 4.33 | 8.24 | 135 | 0.20 | 35x50 | HP32W821M#AS7 | |
| | | 4.64 | 8.82 | 135 | 0.20 | 35x60 | HP32W821M#AS9 | |
| | | 4.95 | 9.41 | 135 | 0.20 | 35x80 | HP32W821M#AS13 | |
| | | 4.85 | 9.22 | 135 | 0.20 | 40x61 | HP32W821M#BS9 | |
| | 1 100 | 5.13 | 9.75 | 120 | 0.20 | 35x60 | HP32W102M#AS9 | |
| | | 5.05 | 9.59 | 115 | 0.20 | 35x70 | HP32W102M#AS11 | |
| | | 5.50 | 10.45 | 115 | 0.20 | 35x70 | HP32W102M#AS112P | |
| | | 5.47 | 10.38 | 115 | 0.20 | 35x80 | HP32W102M#AS13 | |
| | | 6.45 | 12.24 | 115 | 0.20 | 35x80 | HP32W102M#AS132P | |
| | 1 200 | 5.37 | 10.20 | 110 | 0.20 | 40x60 | HP32W102M#BS9 | |
| | | 5.18 | 9.85 | 100 | 0.20 | 40x75 | HP32W112M#BS12 | |
| | | 5.23 | 9.93 | 100 | 0.20 | 35x70 | HP32W122M#AS11 | |
| | | 5.70 | 10.82 | 97 | 0.20 | 40x76 | HP32W122M#BS12 | |
| | 1 400 | 5.78 | 10.98 | 97 | 0.20 | 40x80 | HP32W122M#BS13 | |
| | | 6.06 | 11.52 | 97 | 0.20 | 40x85 | HP32W122M#BS14 | |
| | | | 5.59 | 10.62 | 86 | 0.20 | 40x80 | HP32W142M#BS13 |

Additional designs on request · Weitere Designs auf Anfrage

| Rated VoltageCode (Surge Voltage) V_r [V DC] | Capacitance C_r [μF] | Ripple Current at 85°C/120Hz I_r [A RMS] | Ripple Current at 40°C/120Hz [A RMS] | ESR (typ) at 20°C/100Hz [mΩ] | Dissipation Factor at 20°C/100Hz Tan δ | DxL [mm] | Product Code # = variable value, see terminal code in the product code |
|---|------------------------------|--|---|---------------------------------------|--|----------------|---|
| 450 VDC Code: 2W Surge Voltage 500 VDC | 1 500 | 5.81 | 11.03 | 80 | 0.20 | 40x80 | HP32W152M#BS13 |
| | | 6.34 | 12.03 | 75 | 0.20 | 40x101 | HP32W152M#BS17 |
| | | 7.12 | 13.53 | 80 | 0.20 | 46x76 | HP32W152M#HS12 |
| | 1 600 | 6.55 | 12.44 | 70 | 0.20 | 40x100 | HP32W162M#BS17 |
| | | 1 800 | 7.79 | 14.80 | 70 | 0.20 | 45x76 |
| | 2 000 | 8.22 | 15.61 | 60 | 0.20 | 45x76 | HP32W202M#HS12 |
| | | 8.61 | 16.36 | 55 | 0.20 | 45x76 | HP32W222M#HS12CC |
| | | 2 200 | 8.34 | 15.84 | 53 | 0.20 | 46x100 |
| 2 700 | 7.70 | 14.63 | 45 | 0.20 | 45x100 | HP32W272M#HS17 | |
| 500 VDC Code: 2H Surge Voltage 550 VDC | 56 | 0.68 | 1.30 | 2135 | 0.20 | 22x30 | HP32H560M#XS3 |
| | | 0.65 | 1.23 | 2135 | 0.20 | 25x25 | HP32H560M#YS2 |
| | 68 | 0.79 | 1.51 | 1758 | 0.20 | 22x35 | HP32H680M#XS4 |
| | | 0.92 | 1.76 | 1458 | 0.20 | 22x40 | HP32H820M#XS5 |
| | 82 | 0.85 | 1.61 | 1458 | 0.20 | 25x30 | HP32H820M#YS3 |
| | | 100 | 1.07 | 2.02 | 960 | 0.20 | 22x45 |
| | 0.98 | | 1.86 | 960 | 0.20 | 25x35 | HP32H101M#YS4 |
| | 0.95 | | 1.79 | 960 | 0.20 | 30x25 | HP32H101M#ZS2 |
| | 120 | 1.22 | 2.32 | 800 | 0.20 | 22x50 | HP32H121M#XS7 |
| | | 1.13 | 2.16 | 800 | 0.20 | 25x40 | HP32H121M#YS5 |
| | | 1.10 | 2.09 | 800 | 0.20 | 30x30 | HP32H121M#ZS3 |
| | | 1.10 | 2.09 | 800 | 0.20 | 35x25 | HP32H121M#AS2 |
| | 150 | 1.32 | 2.51 | 640 | 0.20 | 25x45 | HP32H151M#YS6 |
| | | 1.30 | 2.46 | 640 | 0.20 | 30x35 | HP32H151M#ZS4 |
| | | 1.43 | 2.72 | 640 | 0.20 | 35x30 | HP32H151M#AS3 |
| | 180 | 1.52 | 2.88 | 535 | 0.20 | 25x50 | HP32H181M#YS7 |
| | | 1.50 | 2.84 | 535 | 0.20 | 30x40 | HP32H181M#ZS5 |
| | | 1.43 | 2.72 | 535 | 0.20 | 35x30 | HP32H181M#AS3 |
| | 220 | 1.73 | 3.28 | 434 | 0.20 | 30x45 | HP32H221M#ZS6 |
| | | 1.66 | 3.16 | 434 | 0.20 | 35x35 | HP32H221M#AS4 |
| | 270 | 1.57 | 2.99 | 360 | 0.20 | 30x30 | HP32H271M#ZS3 |
| | | 1.99 | 3.78 | 360 | 0.20 | 30x50 | HP32H271M#ZS7 |
| | | 1.93 | 3.66 | 360 | 0.20 | 35x40 | HP32H271M#AS5 |
| | 330 | 2.12 | 4.04 | 365 | 0.20 | 35x40 | HP32H331M#AS5 |
| | | 2.21 | 4.20 | 290 | 0.20 | 35x45 | HP32H331M#AS6 |
| | 370 | 1.94 | 3.68 | 265 | 0.20 | 35x30 | HP32H371M#AS3 |
| | 390 | 2.40 | 4.56 | 290 | 0.20 | 35x45 | HP32H391M#AS6 |
| | | 2.50 | 4.74 | 245 | 0.20 | 35x50 | HP32H391M#AS7 |
| | 470 | 2.51 | 4.76 | 240 | 0.20 | 35x50 | HP32H471M#AS7 |
| | | 2.94 | 5.58 | 210 | 0.20 | 35x60 | HP32H471M#AS9 |
| | | 3.14 | 5.96 | 210 | 0.20 | 35x80 | HP32H471M#AS13 |
| | | | 3.10 | 5.90 | 210 | 0.20 | 40x50 |
| 560 | 3.65 | 6.94 | 170 | 0.20 | 40x76 | HP32H561M#BS12 | |
| 630 | 3.10 | 5.89 | 165 | 0.20 | 30x60 | HP32H631M#ZS9 | |
| 680 | 4.53 | 8.61 | 140 | 0.20 | 40x100 | HP32H681M#BS17 | |

Additional designs on request · Weitere Designs auf Anfrage

| Rated VoltageCode (Surge Voltage) V_r [V DC] | Capacitance C_r [μ F] | Ripple Current at 85°C/120Hz I_r [A RMS] | Ripple Current at 40°C/120Hz [A RMS] | ESR (typ) at 20°C/100Hz [m Ω] | Dissipation Factor at 20°C/100Hz Tan δ | DxL [mm] | Product Code # = variable value, see terminal code in the product code |
|---|------------------------------------|--|---|--|---|----------------|---|
| 500 VDC Code: 2H Surge Voltage 550 VDC | 820 | 3.72 | 7.06 | 140 | 0.20 | 40x70 | HP32H821M#BS11 |
| | | 4.69 | 8.90 | 140 | 0.20 | 40x100 | HP32H821M#BS17 |
| | 870 | 3.81 | 7.23 | 120 | 0.20 | 35x60 | HP32H871M#AS9 |
| | | 1 000 | 4.50 | 8.55 | 115 | 0.20 | 40x80 |
| | 4.94 | | 9.39 | 115 | 0.20 | 40x80 | HP32H102M#BS13CC |
| | 5.18 | | 9.85 | 100 | 0.20 | 40x100 | HP32H102M#BS17 |
| | 1 200 | 5.91 | 11.22 | 90 | 0.20 | 40x110 | HP32H122M#BS19 |
| | 1 500 | 6.89 | 13.08 | 77 | 0.20 | 46x100 | HP32H152M#HS17 |
| 1 600 | 7.26 | 13.79 | 65 | 0.15 | 50x90 | HP32H162M#CS15 | |

Additional designs on request · Weitere Designs auf Anfrage

> Ripple Current Multiplier · Wechselstrommultiplikator

| Frequency [Hz] | | 50/60 | 120 | 300 | 1k | $\geq 10k$ |
|----------------|-------------|-------|------|------|------|------------|
| Multiplier | 16V – 100V | 0.70 | 1.00 | 1.10 | 1.20 | 1.20 |
| | 160V – 500V | 0.70 | 1.00 | 1.18 | 1.34 | 1.45 |

| Temperature [°C] | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Multiplier | 1.9 | 1.8 | 1.7 | 1.6 | 1.5 | 1.4 | 1.3 | 1.2 | 1.1 | 1.0 |

| Forced cooling – Wind speed [m/sec] | $v < 0.25$ | $v \geq 0.25$ | $v \geq 0.5$ | $v \geq 1.0$ | $v \geq 2.0$ | $v \geq 3.0$ |
|-------------------------------------|------------|---------------|--------------|--------------|--------------|--------------|
| Multiplier | 1.00 | 1.05 | 1.10 | 1.15 | 1.20 | 1.25 |

> Life Time Table · Brauchbarkeitsdauer – Tabelle

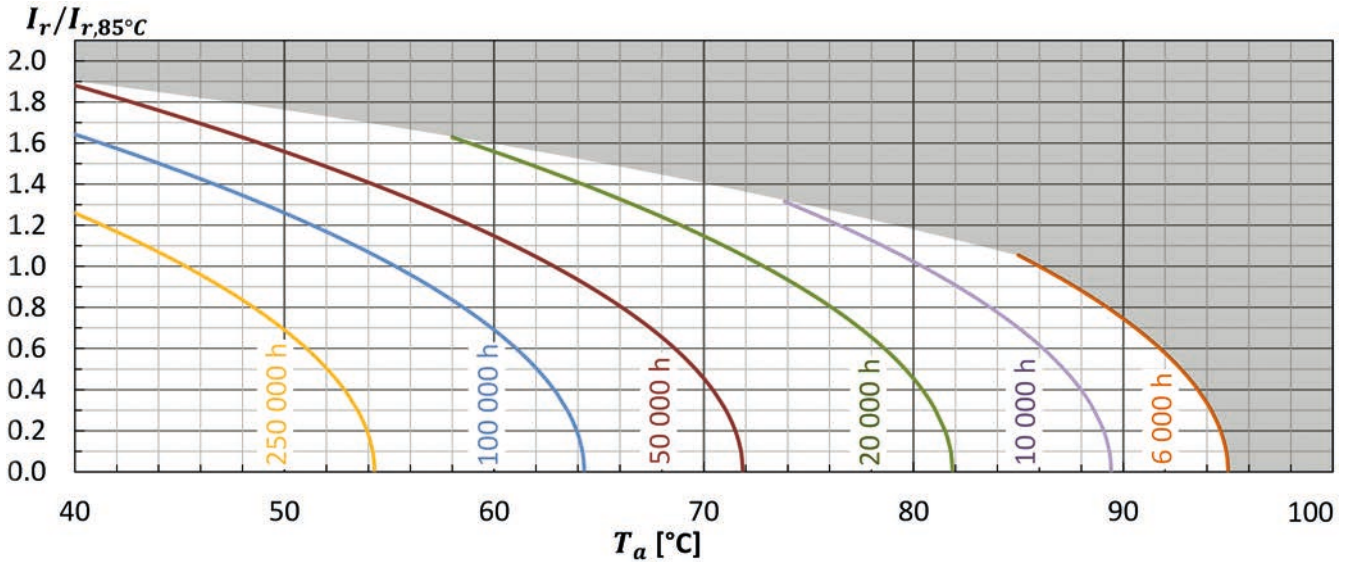
| HP3 I_r at 85°C | Useful life as function of ambient temperature and ripple current | | | | | | | | | |
|--------------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | x 1.0 | x 1.1 | x 1.2 | x 1.3 | x 1.4 | x 1.5 | x 1.6 | x 1.7 | x 1.8 | x 1.9 |
| $T_a = 40^\circ\text{C}$ | 250 | 250 | 250 | 229 | 184 | 144 | 112 | 85 | 64 | 47 |
| $T_a = 45^\circ\text{C}$ | 250 | 216 | 178 | 145 | 116 | 91 | 70 | 54 | 40 | |
| $T_a = 50^\circ\text{C}$ | 162 | 136 | 113 | 91 | 73 | 57 | 44 | 34 | | |
| $T_a = 55^\circ\text{C}$ | 102 | 86 | 71 | 58 | 46 | 36 | 28 | | | |
| $T_a = 60^\circ\text{C}$ | 64 | 54 | 45 | 36 | 29 | 23 | | | | |
| $T_a = 65^\circ\text{C}$ | 41 | 34 | 28 | 23 | 18 | | | | | |
| $T_a = 70^\circ\text{C}$ | 25 | 21 | 18 | 14 | | | | | | |
| $T_a = 75^\circ\text{C}$ | 16 | 13 | 11 | | | | | | | |
| $T_a = 80^\circ\text{C}$ | 10 | 8 | | | | | | | | |
| $T_a = 85^\circ\text{C}$ | 6 | | | | | | | | | |

Max. value limited to 250 000 hours.

> Life Time Graph · Brauchbarkeitsdauer – Diagramm

Useful life depending on ambient temperature T_a and ripple current operating conditions I_r versus rated ripple current at the upper category temperature $I_{r,85^\circ\text{C},120\text{Hz}}$

Brauchbarkeitsdauer in Abhängigkeit von Umgebungstemperatur T_a und Wechselstrombelastung I_r im Verhältnis zur max. Wechselstrombelastung bei oberer Kategorie-temperatur $I_{r,85^\circ\text{C},120\text{Hz}}$



> Life Time Tests and Requirements · Anforderungen Brauchbarkeitsdauer

| Life time test | Test procedure | Life time criteria |
|------------------------|--|---|
| Endurance test | $T_a = 85^\circ\text{C}$; V_r, I_r applied 4000 hours | $\Delta C/C \leq 15\%$ (of initial value) $\text{Tan}\delta \leq 175\%$ (of specified value) $I_L \leq$ specified value |
| Useful life 16~350VDC | $T_a = 85^\circ\text{C}$; V_r, I_r applied 6000 hours | $\Delta C/C \leq 20\%$ (of initial value) $\text{Tan}\delta < 200\%$ (of specified value) $I_L \leq$ specified value |
| Useful life 400~500VDC | $T_a = 85^\circ\text{C}$; V_r, I_r applied 6000 hours | $\Delta C/C \leq 30\%$ (of initial value) $\text{Tan}\delta < 300\%$ (of specified value) $I_L \leq$ specified value |

Reference Specification: JIS C 5101-4, JIS C 5102, IEC 60384-4