

WE-PD2

SMD Power Inductor

Size 4532



Extended Product Range!

Characteristics

- Open size
- Current capability up to 14 A
- Operating temperature: -40 °C to +125 °C

Applications

- Switching regulators with low operating voltage (computer, laptop, mobile phones and pagers)
- Integrated DC/DC-converter
- Perfectly suitable for switching regulators with extremely high efficiency

QR-Code

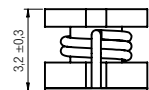
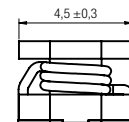
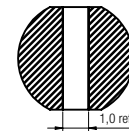


Electrical properties

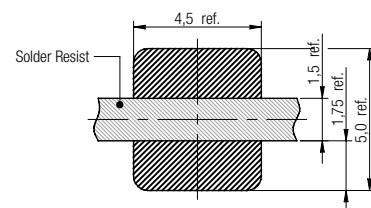
| Order Code | L (µH) | Tolerance (%) | I _R (A) | I _{sat} (A) | R _{DC typ.} (Ω) | R _{DC max.} (Ω) | Qty. |
|-------------|--------|---------------|--------------------|----------------------|--------------------------|--------------------------|------|
| 744 773 0 | 1.0 | ±20 | 4.00 | 5.72 | 0.014 | 0.049 | 1500 |
| 744 773 014 | 1.4 | ±20 | 3.40 | 5.04 | 0.022 | 0.056 | |
| 744 773 018 | 1.8 | ±20 | 2.70 | 3.60 | 0.028 | 0.064 | |
| 744 773 022 | 2.2 | ±20 | 2.50 | 3.38 | 0.034 | 0.071 | |
| 744 773 027 | 2.7 | ±20 | 2.25 | 2.97 | 0.039 | 0.079 | |
| 744 773 033 | 3.3 | ±20 | 2.00 | 2.88 | 0.041 | 0.086 | |
| 744 773 039 | 3.9 | ±20 | 1.88 | 2.57 | 0.054 | 0.094 | |
| 744 773 047 | 4.7 | ±20 | 1.82 | 2.46 | 0.059 | 0.110 | |
| 744 773 056 | 5.6 | ±20 | 1.58 | 2.43 | 0.069 | 0.126 | |
| 744 773 068 | 6.8 | ±20 | 1.54 | 2.10 | 0.076 | 0.131 | |
| 744 773 082 | 8.2 | ±20 | 1.50 | 1.80 | 0.116 | 0.146 | |
| 744 773 10 | 10 | ±20 | 1.45 | 1.74 | 0.118 | 0.182 | |
| 744 773 112 | 12 | ±20 | 1.28 | 1.62 | 0.156 | 0.210 | |
| 744 773 115 | 15 | ±20 | 1.20 | 1.46 | 0.204 | 0.235 | |
| 744 773 118 | 18 | ±10 | 1.10 | 1.29 | 0.225 | 0.338 | |
| 744 773 122 | 22 | ±20 | 1.00 | 1.22 | 0.261 | 0.370 | |
| 744 773 127 | 27 | ±10 | 0.94 | 1.00 | 0.328 | 0.522 | |
| 744 773 133 | 33 | ±10 | 0.86 | 0.90 | 0.370 | 0.540 | |
| 744 773 139 | 39 | ±10 | 0.77 | 0.87 | 0.418 | 0.587 | |
| 744 773 147 | 47 | ±10 | 0.68 | 0.77 | 0.523 | 0.844 | |
| 744 773 156 | 56 | ±10 | 0.64 | 0.75 | 0.714 | 0.937 | |
| 744 773 168 | 68 | ±10 | 0.56 | 0.68 | 0.754 | 1.117 | |

I_R referring to 40 K self-heating above ambient temperature
 I_{sat} referring to inductance loss of 10% typ.

Dimensions (in mm)



Land pattern (in mm)



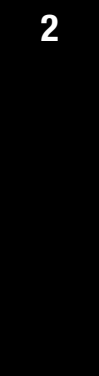
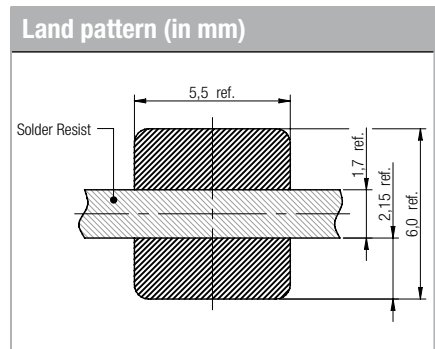
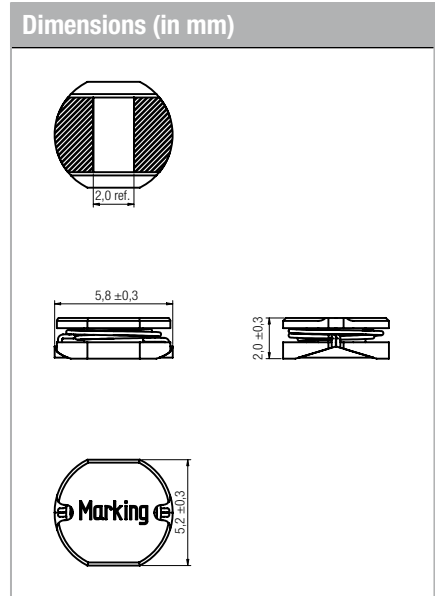
WE-PD2

SMD Power Inductor

Size 5820

| Electrical properties | | | | | | | |
|-----------------------|------------------------|------------------|--------------|-------------------------|--------------------------------------|--------------------------------------|------|
| Order Code | L (μH) | Tolerance (%) | I_R (A) | I_{sat} (A) | $R_{\text{DC typ.}}$ (Ω) | $R_{\text{DC max.}}$ (Ω) | Qty. |
| 744 774 500 12 | 0.12 | ± 20 | 10.0 | 14.0 | 0.0025 | 0.0035 | 2000 |
| 744 774 500 27 | 0.27 | | 8.2 | 9.5 | 0.0044 | 0.0053 | |
| 744 774 500 56 | 0.56 | | 6.5 | 6.5 | 0.0078 | 0.0095 | |
| 744 774 500 82 | 0.82 | | 5.4 | 5.8 | 0.0120 | 0.0140 | |
| 744 774 501 2 | 1.2 | | 4.8 | 4.6 | 0.0170 | 0.0210 | |
| 744 774 501 7 | 1.7 | | 4.0 | 3.6 | 0.0230 | 0.0270 | |
| 744 774 502 2 | 2.2 | | 3.6 | 3.5 | 0.0300 | 0.0360 | |
| 744 774 503 3 | 3.3 | | 3.0 | 3.0 | 0.0410 | 0.0490 | |
| 744 774 503 9 | 3.9 | | 2.8 | 2.6 | 0.0470 | 0.0540 | |
| 744 774 504 7 | 4.7 | | 2.5 | 2.4 | 0.0570 | 0.0650 | |
| 744 774 505 6 | 5.6 | | 2.3 | 2.1 | 0.0700 | 0.0780 | |
| 744 774 506 2 | 6.2 | | 2.1 | 2.0 | 0.0800 | 0.0900 | |
| 744 774 507 6 | 7.6 | | 1.9 | 1.8 | 0.0950 | 0.1050 | |
| 744 774 510 0 | 10 | | 1.7 | 1.6 | 0.1200 | 0.1300 | |
| 744 774 522 0 | 22 | | 1.05 | 1.2 | 0.2650 | 0.3300 | |
| 744 774 533 0 | 33 | | 0.9 | 0.9 | 0.4800 | 0.5200 | |

I_R referring to 40 K self-heating above ambient temperature
 I_{sat} referring to inductance loss of 10% typ.



WE-PD2

SMD Power Inductor

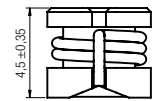
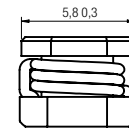
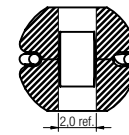
Size 5848

Electrical properties

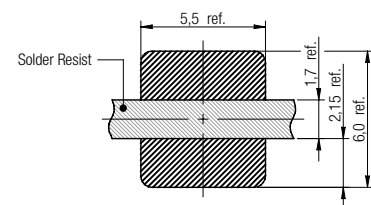
| Order Code | L (μ H) | Tolerance (%) | I _R (A) | I _{sat} (A) | R _{DC typ.} (Ω) | R _{DC max.} (Ω) | Qty. |
|-------------|-----------------|------------------|-----------------------|-------------------------|--------------------------------------|--------------------------------------|------|
| 744 774 022 | 2.2 | ±20 | 4.60 | 8.20 | 0.026 | 0.041 | 1500 |
| 744 774 027 | 2.7 | ±20 | 4.00 | 8.00 | 0.032 | 0.045 | |
| 744 774 033 | 3.3 | ±20 | 4.00 | 7.50 | 0.042 | 0.060 | |
| 744 774 047 | 4.7 | ±20 | 3.00 | 5.50 | 0.056 | 0.071 | |
| 744 774 068 | 6.8 | ±20 | 2.40 | 5.00 | 0.071 | 0.082 | |
| 744 774 10 | 10 | ±20 | 2.20 | 2.50 | 0.078 | 0.10 | |
| 744 774 112 | 12 | ±20 | 2.00 | 1.94 | 0.082 | 0.11 | |
| 744 774 115 | 15 | ±20 | 1.53 | 1.90 | 0.089 | 0.14 | |
| 744 774 118 | 18 | ±20 | 1.45 | 1.69 | 0.104 | 0.15 | |
| 744 774 122 | 22 | ±20 | 1.28 | 1.53 | 0.109 | 0.18 | |
| 744 774 127 | 27 | ±20 | 1.19 | 1.40 | 0.133 | 0.20 | |
| 744 774 133 | 33 | ±15 | 1.09 | 1.17 | 0.150 | 0.23 | |
| 744 774 139 | 39 | ±15 | 0.94 | 1.10 | 0.215 | 0.32 | |
| 744 774 147 | 47 | ±15 | 0.86 | 1.00 | 0.260 | 0.37 | |
| 744 774 156 | 56 | ±10 | 0.77 | 0.90 | 0.298 | 0.42 | |
| 744 774 168 | 68 | ±10 | 0.64 | 0.86 | 0.313 | 0.46 | |
| 744 774 182 | 82 | ±10 | 0.60 | 0.72 | 0.475 | 0.60 | |
| 744 774 20 | 100 | ±10 | 0.57 | 0.68 | 0.510 | 0.65 | |
| 744 774 212 | 120 | ±10 | 0.49 | 0.63 | 0.660 | 0.93 | |
| 744 774 215 | 150 | ±10 | 0.46 | 0.54 | 0.720 | 1.10 | |
| 744 774 218 | 180 | ±10 | 0.42 | 0.50 | 0.850 | 1.38 | |
| 744 774 222 | 220 | ±10 | 0.42 | 0.47 | 0.945 | 1.57 | |

I_R referring to 40 K self-heating above ambient temperature
 I_{sat} referring to inductance loss of 10% typ.

Dimensions (in mm)



Land pattern (in mm)



WE-PD2

SMD Power Inductor

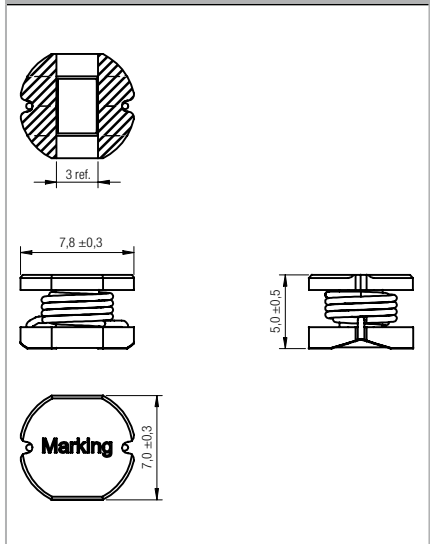
Size 7850

Electrical properties

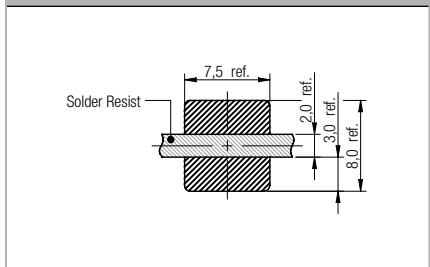
| Order Code | L (μ H) | Tolerance (%) | I_R (A) | I_{sat} (A) | $R_{DC\ typ.}$ (Ω) | $R_{DC\ max.}$ (Ω) | Qty. |
|-----------------------|-----------------|------------------|--------------|------------------|--------------------------------|--------------------------------|------|
| 744 775 022 | 2.2 | ± 20 | 6.00 | 6.00 | 0.008 | 0.015 | 500 |
| 744 775 033 | 3.3 | ± 20 | 4.90 | 4.90 | 0.012 | 0.018 | |
| 744 775 047 | 4.7 | ± 20 | 4.50 | 4.50 | 0.016 | 0.019 | |
| 744 775 056 | 5.6 | ± 20 | 4.00 | 4.00 | 0.018 | 0.022 | |
| 744 775 068 | 6.8 | ± 20 | 3.70 | 3.80 | 0.022 | 0.026 | |
| 744 775 082 | 8.2 | ± 20 | 3.20 | 3.20 | 0.029 | 0.040 | |
| 744 775 10 | 10 | ± 10 | 2.30 | 2.95 | 0.044 | 0.07 | |
| 744 775 112 | 12 | ± 10 | 2.18 | 2.20 | 0.042 | 0.08 | |
| 744 775 115 | 15 | ± 10 | 1.93 | 2.23 | 0.044 | 0.09 | |
| 744 775 118 | 18 | ± 10 | 1.89 | 2.14 | 0.053 | 0.10 | |
| 744 775 122 | 22 | ± 10 | 1.76 | 1.81 | 0.065 | 0.11 | |
| 744 775 127 | 27 | ± 10 | 1.48 | 1.62 | 0.074 | 0.12 | |
| 744 775 133 | 33 | ± 10 | 1.35 | 1.47 | 0.089 | 0.13 | |
| 744 775 139 | 39 | ± 10 | 1.25 | 1.33 | 0.116 | 0.16 | |
| 744 775 147 | 47 | ± 10 | 1.17 | 1.24 | 0.134 | 0.18 | |
| 744 775 156 | 56 | ± 10 | 1.04 | 1.14 | 0.189 | 0.24 | |
| 744 775 168 | 68 | ± 10 | 0.99 | 1.05 | 0.218 | 0.28 | |
| 744 775 182 | 82 | ± 10 | 0.90 | 0.95 | 0.248 | 0.37 | |
| 744 775 20 | 100 | ± 10 | 0.77 | 0.86 | 0.208 | 0.43 | |
| 744 775 210 | 120 | ± 10 | 0.67 | 0.81 | 0.308 | 0.47 | |
| 744 775 215 | 150 | ± 10 | 0.60 | 0.71 | 0.467 | 0.64 | |
| 744 775 218 | 180 | ± 10 | 0.55 | 0.57 | 0.574 | 0.71 | |
| 744 775 222 | 220 | ± 10 | 0.51 | 0.56 | 0.614 | 0.96 | |
| 744 775 227 | 270 | ± 10 | 0.47 | 0.51 | 0.699 | 1.11 | |
| 744 775 233 | 330 | ± 10 | 0.43 | 0.48 | 0.810 | 1.26 | |
| 744 775 239 | 390 | ± 10 | 0.38 | 0.43 | 1.151 | 1.77 | |
| 744 775 247 | 470 | ± 10 | 0.36 | 0.38 | 1.370 | 1.96 | |
| NEW 744 775 30 | 1000 | ± 10 | 0.30 | 0.30 | 2.780 | 3.30 | |

I_R referring to 40 K self-heating above ambient temperature
 I_{sat} referring to inductance loss of 10% typ.

Dimensions (in mm)



Land pattern (in mm)



WE-PD2

SMD Power Inductor

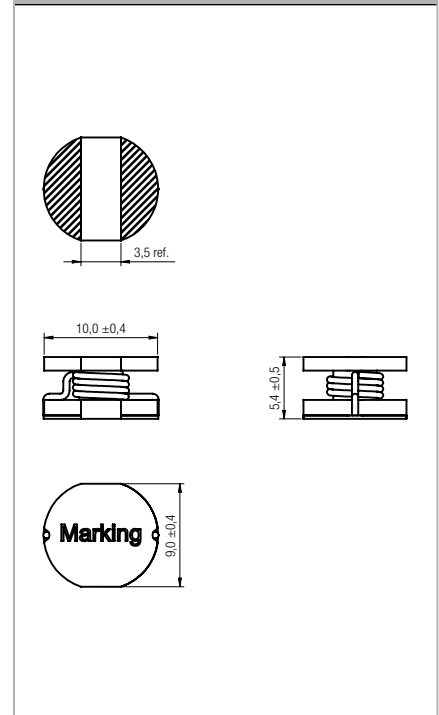
Size 1054

Electrical properties

| Order Code | L (μ H) | Tolerance (%) | I_R (A) | I_{sat} (A) | $R_{DC\ typ.}$ (Ω) | $R_{DC\ max.}$ (Ω) | Qty. |
|------------------------|-----------------|------------------|--------------|------------------|--------------------------------|--------------------------------|------|
| 744 776 012 | 1.2 | ± 20 | 7.40 | 11.0 | 0.004 | 0.006 | 500 |
| 744 776 022 | 2.2 | ± 20 | 7.00 | 8.00 | 0.007 | 0.010 | |
| 744 776 033 | 3.3 | ± 20 | 6.00 | 7.00 | 0.009 | 0.015 | |
| 744 776 047 | 4.7 | ± 20 | 5.00 | 6.00 | 0.012 | 0.017 | |
| 744 776 056 | 5.6 | ± 20 | 4.80 | 4.50 | 0.015 | 0.019 | |
| 744 776 068 | 6.8 | ± 20 | 4.40 | 5.00 | 0.016 | 0.022 | |
| 744 776 082 | 8.2 | ± 20 | 4.20 | 4.25 | 0.020 | 0.026 | |
| 744 776 10 | 10 | ± 20 | 2.98 | 3.24 | 0.028 | 0.06 | |
| 744 776 112 | 12 | ± 20 | 2.72 | 3.15 | 0.033 | 0.07 | |
| 744 776 115 | 15 | ± 20 | 2.47 | 2.88 | 0.034 | 0.08 | |
| 744 776 118 | 18 | ± 20 | 2.36 | 2.43 | 0.043 | 0.09 | |
| 744 776 122 | 22 | ± 20 | 2.04 | 2.07 | 0.051 | 0.10 | |
| 744 776 127 | 27 | ± 20 | 1.95 | 1.98 | 0.063 | 0.11 | |
| 744 776 133 | 33 | ± 20 | 1.78 | 1.89 | 0.083 | 0.12 | |
| 744 776 139 | 39 | ± 20 | 1.62 | 1.80 | 0.098 | 0.14 | |
| 744 776 147 | 47 | ± 10 | 1.45 | 1.62 | 0.095 | 0.17 | |
| 744 776 156 | 56 | ± 10 | 1.36 | 1.53 | 0.112 | 0.19 | |
| 744 776 168 | 68 | ± 10 | 1.19 | 1.49 | 0.138 | 0.22 | |
| 744 776 182 | 82 | ± 10 | 1.11 | 1.17 | 0.150 | 0.25 | |
| 744 776 20 | 100 | ± 10 | 1.02 | 1.10 | 0.200 | 0.35 | |
| 744 776 212 | 120 | ± 10 | 0.94 | 0.99 | 0.243 | 0.40 | |
| 744 776 215 | 150 | ± 10 | 0.81 | 0.90 | 0.300 | 0.47 | |
| 744 776 218 | 180 | ± 10 | 0.76 | 0.78 | 0.320 | 0.63 | |
| 744 776 222 | 220 | ± 10 | 0.67 | 0.77 | 0.451 | 0.73 | |
| 744 776 227 | 270 | ± 10 | 0.62 | 0.68 | 0.500 | 0.97 | |
| 744 776 233 | 330 | ± 10 | 0.52 | 0.59 | 0.750 | 1.15 | |
| 744 776 239 | 390 | ± 10 | 0.49 | 0.54 | 0.794 | 1.30 | |
| 744 776 247 | 470 | ± 10 | 0.44 | 0.50 | 0.969 | 1.48 | |
| 744 776 256 | 560 | ± 10 | 0.39 | 0.47 | 1.047 | 1.90 | |
| 744 776 268 | 680 | ± 10 | 0.36 | 0.43 | 1.245 | 2.25 | |
| 744 776 282 | 820 | ± 10 | 0.32 | 0.41 | 1.420 | 2.55 | |
| NEW 744 776 30 | 1000 | ± 10 | 0.32 | 0.38 | 2.200 | 2.60 | |
| NEW 744 776 312 | 1200 | ± 10 | 0.30 | 0.38 | 2.480 | 3.00 | |
| NEW 744 776 322 | 2200 | ± 10 | 0.18 | 0.26 | 4.400 | 5.30 | |

I_R referring to 40 K self-heating above ambient temperature
 I_{sat} referring to inductance loss of 10% typ.

Dimensions (in mm)



Land pattern (in mm)

