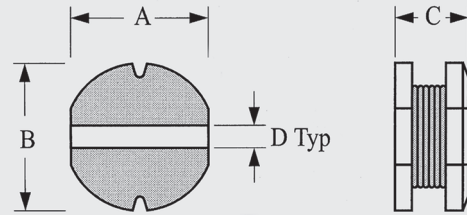




## SMD-Power Inductors WE-PD2



| Type | A (mm) | B (mm) | C (mm) | D (mm) |
|------|--------|--------|--------|--------|
| S    | 4.0    | 4.5    | 3.2    | 1.0    |
| M    | 5.2    | 5.8    | 4.5    | 2.0    |
| L    | 7.0    | 7.8    | 5.0    | 3.0    |
| XL   | 9.0    | 10.0   | 5.4    | 3.5    |

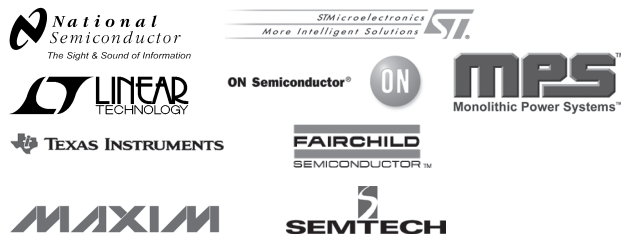


- Industry standard sizes
- Operating temperature: -40°C to +125°C
- Recommended solder profile: Reflow
- Current capability up to 5.72 A



- Switching regulators with low operating voltage (computer, laptop, mobile phones and pagers)
- Integrated DC/DC-converter
- Perfectly suitable for switching regulators e.g. National Semiconductor, Linear Technology, Texas Instruments, Maxim, STMicroelectronics, Micrel, Semtech, ON Semiconductor, Maxim, MPS
- Perfectly suitable for switching regulators with extremely high efficiency
- Graphics cards

Recommended for switching regulator IC's from:





## SMD-Power Inductors WE-PD2

### Type S

| Order Code | Inductance (μH) | Tolerance (%) | DCR max. (Ω) | DCR typ. (Ω) | rated current (A) | I <sub>sat</sub> (A) | Qty. |
|------------|-----------------|---------------|--------------|--------------|-------------------|----------------------|------|
| 7447730    | 1.0             | ±20           | 0.049        | 0.014        | 4                 | 5.72                 | 1500 |
| 744773014  | 1.4             | ±20           | 0.056        | 0.022        | 3.4               | 5.04                 |      |
| 744773018  | 1.8             | ±20           | 0.064        | 0.028        | 2.7               | 3.6                  |      |
| 744773022  | 2.2             | ±20           | 0.071        | 0.034        | 2.5               | 3.38                 |      |
| 744773027  | 2.7             | ±20           | 0.079        | 0.039        | 2.25              | 2.97                 |      |
| 744773033  | 3.3             | ±20           | 0.086        | 0.041        | 2.00              | 2.88                 |      |
| 744773039  | 3.9             | ±20           | 0.094        | 0.054        | 1.88              | 2.57                 |      |
| 744773047  | 4.7             | ±20           | 0.110        | 0.059        | 1.82              | 2.46                 |      |
| 744773056  | 5.6             | ±20           | 0.126        | 0.069        | 1.58              | 2.43                 |      |
| 744773068  | 6.8             | ±20           | 0.131        | 0.076        | 1.54              | 2.1                  |      |
| 744773082  | 8.2             | ±20           | 0.146        | 0.116        | 1.50              | 1.8                  |      |
| 74477310   | 10.0            | ±20           | 0.182        | 0.118        | 1.45              | 1.74                 |      |
| 744773112  | 12.0            | ±20           | 0.210        | 0.156        | 1.28              | 1.62                 |      |
| 744773115  | 15.0            | ±20           | 0.235        | 0.204        | 1.20              | 1.46                 |      |
| 744773118  | 18.0            | ±20           | 0.338        | 0.225        | 1.10              | 1.29                 |      |
| 744773122  | 22.0            | ±20           | 0.370        | 0.261        | 1.00              | 1.22                 |      |
| 744773127  | 27.0            | ±20           | 0.522        | 0.328        | 0.94              | 1                    |      |
| 744773133  | 33.0            | ±10           | 0.540        | 0.370        | 0.86              | 0.9                  |      |
| 744773139  | 39.0            | ±10           | 0.587        | 0.418        | 0.77              | 0.87                 |      |
| 744773147  | 47.0            | ±10           | 0.844        | 0.523        | 0.68              | 0.77                 |      |
| 744773156  | 56.0            | ±10           | 0.937        | 0.714        | 0.64              | 0.75                 |      |
| 744773168  | 68.0            | ±10           | 1.117        | 0.754        | 0.56              | 0.68                 |      |

Rated current typ. referring to 40 K heating above ambient temperature  
 Saturation current typ. referring to inductance loss of 10% typ.



## SMD-Power Inductors WE-PD2

### Type M

| Order Code | Inductance (μH) | Tolerance (%) | DCR max. (Ω) | DCR typ. (Ω) | rated current (A) | I <sub>sat</sub> (A) | Qty. |
|------------|-----------------|---------------|--------------|--------------|-------------------|----------------------|------|
| 744774068  | 6.8             | ±20           | 0.082        | 0.071        | 2.4               | 5.00                 | 1500 |
| 74477410   | 10.0            | ±20           | 0.10         | 0.078        | 2.20              | 2.16                 |      |
| 744774112  | 12.0            | ±20           | 0.11         | 0.082        | 2.00              | 1.94                 |      |
| 744774115  | 15.0            | ±20           | 0.14         | 0.089        | 1.53              | 1.9                  |      |
| 744774118  | 18.0            | ±20           | 0.15         | 0.104        | 1.45              | 1.69                 |      |
| 744774122  | 22.0            | ±20           | 0.18         | 0.109        | 1.28              | 1.53                 |      |
| 744774127  | 27.0            | ±20           | 0.20         | 0.133        | 1.19              | 1.4                  |      |
| 744774133  | 33.0            | ±15           | 0.23         | 0.150        | 1.09              | 1.17                 |      |
| 744774139  | 39.0            | ±15           | 0.32         | 0.215        | 0.94              | 1.1                  |      |
| 744774147  | 47.0            | ±15           | 0.37         | 0.260        | 0.86              | 1                    |      |
| 744774156  | 56.0            | ±10           | 0.42         | 0.298        | 0.77              | 0.9                  |      |
| 744774168  | 68.0            | ±10           | 0.46         | 0.313        | 0.64              | 0.86                 |      |
| 744774182  | 82.0            | ±10           | 0.60         | 0.475        | 0.60              | 0.72                 |      |
| 74477420   | 100.0           | ±10           | 0.65         | 0.510        | 0.57              | 0.68                 |      |
| 744774212  | 120.0           | ±10           | 0.93         | 0.660        | 0.49              | 0.63                 |      |
| 744774215  | 150.0           | ±10           | 1.10         | 0.720        | 0.46              | 0.54                 |      |
| 744774218  | 180.0           | ±10           | 1.38         | 0.850        | 0.42              | 0.5                  |      |
| 744774222  | 220.0           | ±10           | 1.57         | 0.945        | 0.42              | 0.47                 |      |

Rated current typ. referring to 40 K heating above ambient temperature  
 Saturation current typ. referring to inductance loss of 10% typ.



## SMD-Power Inductors WE-PD2

### Type L

| Order Code | Inductance (μH) | Tolerance (%) | DCR max. (Ω) | DCR typ. (Ω) | rated current (A) | I <sub>sat</sub> (A) | Qty. |
|------------|-----------------|---------------|--------------|--------------|-------------------|----------------------|------|
| 74477510   | 10.0            | ±10           | 0.07         | 0.040        | 2.30              | 2.95                 | 500  |
| 744775112  | 12.0            | ±10           | 0.08         | 0.0417       | 2.18              | 2.2                  |      |
| 744775115  | 15.0            | ±10           | 0.09         | 0.0439       | 1.93              | 2.23                 |      |
| 744775118  | 18.0            | ±10           | 0.10         | 0.0526       | 1.89              | 2.14                 |      |
| 744775122  | 22.0            | ±10           | 0.11         | 0.0654       | 1.76              | 1.81                 |      |
| 744775127  | 27.0            | ±10           | 0.12         | 0.0738       | 1.48              | 1.62                 |      |
| 744775133  | 33.0            | ±10           | 0.13         | 0.0878       | 1.35              | 1.47                 |      |
| 744775139  | 39.0            | ±10           | 0.16         | 0.116        | 1.25              | 1.33                 |      |
| 744775147  | 47.0            | ±10           | 0.18         | 0.1343       | 1.17              | 1.24                 |      |
| 744775156  | 56.0            | ±10           | 0.24         | 0.189        | 1.04              | 1.14                 |      |
| 744775168  | 68.0            | ±10           | 0.28         | 0.218        | 0.99              | 1.05                 |      |
| 744775182  | 82.0            | ±10           | 0.37         | 0.208        | 0.90              | 0.95                 |      |
| 74477520   | 100.0           | ±10           | 0.43         | 0.2482       | 0.77              | 0.86                 |      |
| 744775210  | 120.0           | ±10           | 0.47         | 0.308        | 0.67              | 0.81                 |      |
| 744775215  | 150.0           | ±10           | 0.64         | 0.4666       | 0.60              | 0.71                 |      |
| 744775218  | 180.0           | ±10           | 0.71         | 0.5741       | 0.55              | 0.57                 |      |
| 744775222  | 220.0           | ±10           | 0.96         | 0.614        | 0.51              | 0.56                 |      |
| 744775227  | 270.0           | ±10           | 1.11         | 0.699        | 0.47              | 0.51                 |      |
| 744775233  | 330.0           | ±10           | 1.26         | 0.81         | 0.43              | 0.48                 |      |
| 744775239  | 390.0           | ±10           | 1.77         | 1.151        | 0.38              | 0.43                 |      |
| 744775247  | 470.0           | ±10           | 1.96         | 1.37         | 0.36              | 0.38                 |      |

Rated current typ. referring to 40 K heating above ambient temperature  
 Saturation current typ. referring to inductance loss of 10% typ.

## SMD-Power Inductors WE-PD2

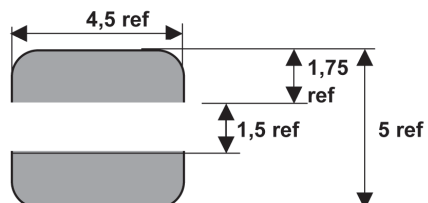
### Type XL

| Order Code | Inductance (μH) | Tolerance (%) | DCR max. (Ω) | DCR typ. (Ω) | rated current (A) | I <sub>sat</sub> (A) | Qty. |
|------------|-----------------|---------------|--------------|--------------|-------------------|----------------------|------|
| 74477610   | 10.0            | ±20           | 0.06         | 0.0275       | 2.98              | 3.24                 | 500  |
| 744776112  | 12.0            | ±20           | 0.07         | 0.0326       | 2.72              | 3.15                 |      |
| 744776115  | 15.0            | ±20           | 0.08         | 0.034        | 2.47              | 2.88                 |      |
| 744776118  | 18.0            | ±20           | 0.09         | 0.0428       | 2.36              | 2.43                 |      |
| 744776122  | 22.0            | ±20           | 0.10         | 0.0511       | 2.04              | 2.07                 |      |
| 744776127  | 27.0            | ±20           | 0.11         | 0.0627       | 1.95              | 1.98                 |      |
| 744776133  | 33.0            | ±20           | 0.12         | 0.0826       | 1.78              | 1.89                 |      |
| 744776139  | 39.0            | ±20           | 0.14         | 0.0983       | 1.62              | 1.8                  |      |
| 744776147  | 47.0            | ±10           | 0.17         | 0.0951       | 1.45              | 1.62                 |      |
| 744776156  | 56.0            | ±10           | 0.19         | 0.112        | 1.36              | 1.53                 |      |
| 744776168  | 68.0            | ±10           | 0.22         | 0.138        | 1.19              | 1.49                 |      |
| 744776182  | 82.0            | ±10           | 0.25         | 0.15         | 1.11              | 1.17                 |      |
| 74477620   | 100.0           | ±10           | 0.35         | 0.2          | 1.02              | 1.1                  |      |
| 744776212  | 120.0           | ±10           | 0.40         | 0.243        | 0.94              | 0.99                 |      |
| 744776215  | 150.0           | ±10           | 0.47         | 0.3          | 0.81              | 0.9                  |      |
| 744776218  | 180.0           | ±10           | 0.63         | 0.32         | 0.76              | 0.78                 |      |
| 744776222  | 220.0           | ±10           | 0.73         | 0.4511       | 0.67              | 0.77                 |      |
| 744776227  | 270.0           | ±10           | 0.97         | 0.5          | 0.62              | 0.68                 |      |
| 744776233  | 330.0           | ±10           | 1.15         | 0.75         | 0.52              | 0.59                 |      |
| 744776239  | 390.0           | ±10           | 1.30         | 0.794        | 0.49              | 0.54                 |      |
| 744776247  | 470.0           | ±10           | 1.48         | 0.969        | 0.44              | 0.5                  |      |
| 744776256  | 560.0           | ±10           | 1.90         | 1.047        | 0.39              | 0.47                 |      |
| 744776268  | 680.0           | ±10           | 2.25         | 1.245        | 0.36              | 0.43                 |      |
| 744776282  | 820.0           | ±10           | 2.55         | 1.42         | 0.32              | 0.41                 |      |

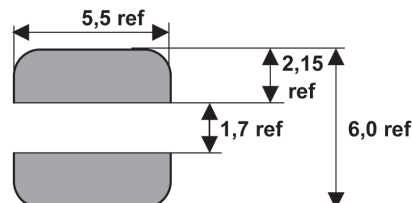
Rated current typ. referring to 40 K heating above ambient temperature  
Saturation current typ. referring to inductance loss of 10% typ.

### Soldering specification (in mm):

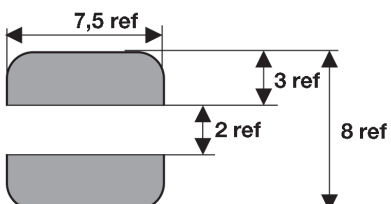
#### PD2 S



#### PD2 M



#### PD2 L



#### PD2 XL

