

SURFACE MOUNT POWER INDUCTORS / WDI TYPE

FEATURES

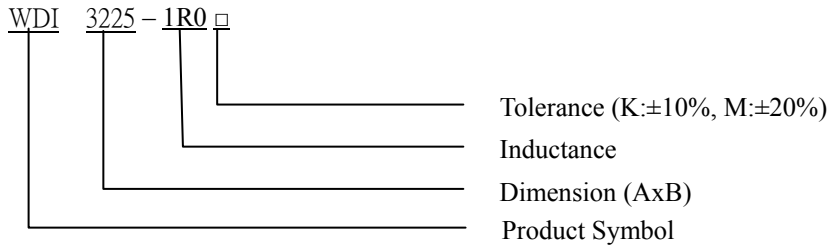
- ◆ The series is a range of miniature, surface-mount.
- ◆ I-core power inductors.
- ◆ Suitable for and reflow soldering.
- ◆ Shapes and dimensions follow E.I.A. spec.
- ◆ They are designed for use in power applications with restricted PCB space and height.



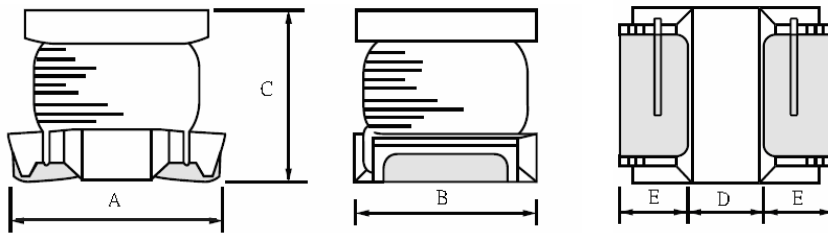
APPLICATIONS

- ◆ Mainly used by handheld devices. DC-DC converters
- ◆ Digital camera, LCD television set notebook computers.
- ◆ Part able communication equipments, etc.

ORDERING CODE



SHAPES



DIMENSIONS UNIT: mm (inch)

| Part No. | A | B | C | D | E |
|------------------------|-----------|-----------|-----------|-----------|-----------|
| WDI 3225 (1210) | 3.2 ± 0.3 | 2.5 ± 0.2 | 2.0 ± 0.3 | 0.9 ± 0.3 | 1.3 ± 0.2 |
| WDI 4532 (1812) | 4.5 ± 0.3 | 3.2 ± 0.3 | 2.6 ± 0.3 | 1.0 (MIN) | 1.0 (MIN) |
| WDI 5750 (2220) | 5.7 ± 0.3 | 5.0 ± 0.3 | 4.7 ± 0.3 | 1.7 (MIN) | 1.3 (MIN) |

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ELECTRICAL CHARACTERISTICS FOR WDI3225

| Part No. | Inductance (μ H) | Test Frequency (MHz) | RDC (Ω) Max | IDC (mA) Max |
|--------------|--------------------------|-------------------------|-------------------------|-----------------|
| WDI3225-1R0□ | 1.0 | 1MHz | 0.117 | 800 |
| WDI3225-1R5□ | 1.5 | 1MHz | 0.138 | 700 |
| WDI3225-2R2□ | 2.2 | 1MHz | 0.169 | 600 |
| WDI3225-3R3□ | 3.3 | 1MHz | 0.230 | 520 |
| WDI3225-4R7□ | 4.7 | 1MHz | 0.260 | 450 |
| WDI3225-6R8□ | 6.8 | 1MHz | 0.380 | 380 |
| WDI3225-100□ | 10 | 1MHz | 0.572 | 300 |
| WDI3225-150□ | 15 | 1MHz | 0.730 | 280 |
| WDI3225-180□ | 18 | 1MHz | 0.820 | 270 |
| WDI3225-220□ | 22 | 1MHz | 0.923 | 250 |
| WDI3225-270□ | 27 | 1MHz | 1.110 | 230 |
| WDI3225-330□ | 33 | 1MHz | 1.300 | 210 |
| WDI3225-390□ | 39 | 1MHz | 1.510 | 190 |
| WDI3225-470□ | 47 | 1MHz | 1.690 | 170 |
| WDI3225-680□ | 68 | 1MHz | 3.140 | 130 |
| WDI3225-101□ | 100 | 1MHz | 4.550 | 100 |
| WDI3225-121□ | 120 | 1MHz | 6.080 | 80 |
| WDI3225-151□ | 150 | 1MHz | 7.630 | 75 |
| WDI3225-181□ | 180 | 1MHz | 9.260 | 70 |
| WDI3225-221□ | 220 | 1MHz | 10.92 | 70 |
| WDI3225-271□ | 270 | 1MHz | 12.50 | 65 |
| WDI3225-331□ | 330 | 1MHz | 13.50 | 60 |
| WDI3225-391□ | 390 | 1MHz | 22.10 | 60 |
| WDI3225-471□ | 470 | 1KHz | 24.70 | 60 |
| WDI3225-561□ | 560 | 1KHz | 28.60 | 60 |

ELECTRICAL CHARACTERISTICS FOR WDI4532

| Part No. | Inductance (μ H) | Test Frequency (MHz) | RDC (Ω) Max | IDC (mA) Max |
|--------------|--------------------------|-------------------------|-------------------------|-----------------|
| WDI4532-1R0□ | 1.0 | 1MHz | 0.08 | 1080 |
| WDI4532-1R5□ | 1.5 | 1MHz | 0.09 | 1000 |
| WDI4532-2R2□ | 2.2 | 1MHz | 0.11 | 900 |
| WDI4532-3R3□ | 3.3 | 1MHz | 0.13 | 800 |
| WDI4532-4R7□ | 4.7 | 1MHz | 0.15 | 750 |
| WDI4532-6R8□ | 6.8 | 1MHz | 0.20 | 720 |
| WDI4532-100□ | 10 | 1MHz | 0.24 | 650 |
| WDI4532-150□ | 15 | 1MHz | 0.32 | 570 |
| WDI4532-220□ | 22 | 1MHz | 0.60 | 420 |
| WDI4532-330□ | 33 | 1MHz | 1.00 | 310 |
| WDI4532-470□ | 47 | 1MHz | 1.10 | 280 |
| WDI4532-680□ | 68 | 1MHz | 1.70 | 220 |
| WDI4532-101□ | 100 | 1MHz | 2.20 | 190 |
| WDI4532-151□ | 150 | 1MHz | 3.50 | 130 |
| WDI4532-221□ | 220 | 1MHz | 4.00 | 110 |
| WDI4532-331□ | 330 | 1MHz | 6.80 | 100 |
| WDI4532-471□ | 470 | 1KHz | 8.50 | 90 |
| WDI4532-681□ | 680 | 1KHz | 17.00 | 65 |
| WDI4532-102□ | 1000 | 1KHz | 25.00 | 50 |
| WDI4532-152□ | 1500 | 1KHz | 37.00 | 40 |

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ELECTRICAL CHARACTERISTICS FOR WDI5750

| Part No. | Inductance (μ H) | Test Frequency (MHz) | RDC (Ω)Max | IDC (A) Max |
|----------------|--------------------------|-------------------------|------------------------|----------------|
| WDI 5750-1R0 □ | 1.0 \pm 20% | 1MHz | 0.020 | 9.00 |
| WDI 5750-1R5 □ | 1.5 \pm 20% | 1MHz | 0.028 | 7.80 |
| WDI 5750-2R2 □ | 2.2 \pm 20% | 1MHz | 0.035 | 6.54 |
| WDI 5750-3R3 □ | 3.3 \pm 20% | 1MHz | 0.054 | 5.48 |
| WDI 5750-4R7 □ | 4.7 \pm 20% | 1MHz | 0.081 | 4.48 |
| WDI 5750-6R8 □ | 6.8 \pm 20% | 1MHz | 0.124 | 3.57 |
| WDI 5750-100 □ | 10 \pm 20% | 1MHz | 0.167 | 3.06 |
| WDI 5750-150 □ | 15 \pm 20% | 1MHz | 0.215 | 2.63 |
| WDI 5750-220 □ | 22 \pm 20% | 1MHz | 0.322 | 2.21 |
| WDI 5750-330 □ | 33 \pm 20% | 1MHz | 0.448 | 1.78 |
| WDI 5750-470 □ | 47 \pm 20% | 1MHz | 0.586 | 1.50 |
| WDI 5750-680 □ | 68 \pm 20% | 1MHz | 0.806 | 1.30 |
| WDI 5750-101 □ | 100 \pm 10% | 100KHz | 1.100 | 1.05 |
| WDI 5750-151 □ | 150 \pm 10% | 100KHz | 1.575 | 0.94 |
| WDI 5750-221 □ | 220 \pm 10% | 100KHz | 2.550 | 0.72 |
| WDI 5750-331 □ | 330 \pm 10% | 100KHz | 3.600 | 0.60 |
| WDI 5750-471 □ | 470 \pm 10% | 100KHz | 5.800 | 0.50 |
| WDI 5750-681 □ | 680 \pm 10% | 100KHz | 10.200 | 0.40 |
| WDI 5750-102 □ | 100 \pm 10% | 100KHz | 18.300 | 0.30 |
| WDI 5750-222 □ | 2200 \pm 10% | 100KHz | 30.100 | 0.10 |
| WDI 5750-472 □ | 4700 \pm 10% | 100KHz | 52.800 | 0.05 |

Notes:

- 1) Test Equipment : HP4284A or WK3260B LCR Meter.
- 2) DCR limits @ 20°C. Test Equipment: CH502BC.
- 3) Tolerance : M= \pm 20%, K= \pm 10%