

## SMD POWER INDUCTORS / WDI TYPE

### FEATURES

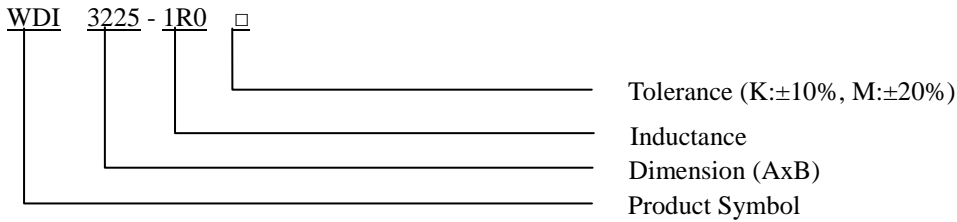
- ◆ The series is a range of miniature, surface-mount.
- ◆ I-core power inductors.
- ◆ Suitable for and reflow soldering.
- ◆ They are designed for use in power applications with restricted PCB space and height.



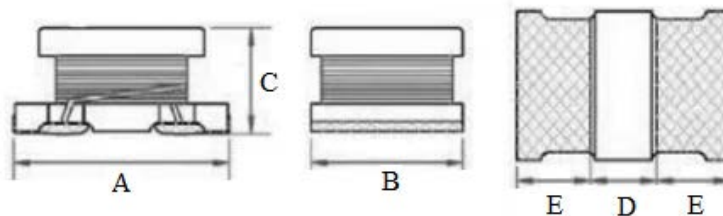
### APPLICATIONS

- ◆ Personal computers.
- ◆ Pagers, Cordless phone.
- ◆ High Freq. Communication Products.
- ◆ Disk Drives and computer peripherals.
- DC power supply circuits.

### ORDERING CODE



### SHAPES



### DIMENSIONS UNIT: mm (inch)

Part No.	A	B	C	D (MIN)	E (MIN)
<b>WDI 3216</b>	3.2 ± 0.3	1.6 ± 0.2	1.8 ± 0.3	0.7	0.7
<b>WDI 3225</b>	3.2 ± 0.3	2.5 ± 0.2	2.0 ± 0.3	0.7	0.7
<b>WDI 4532</b>	4.5 ± 0.3	3.2 ± 0.2	2.6 ± 0.3	1.0	1.0
<b>WDI 5750</b>	5.7 ± 0.3	5.0 ± 0.3	4.7 ± 0.3	1.7	1.3

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### ELECTRICAL CHARACTERISTICS FOR WDI3216

Part No.	Inductance ( $\mu$ H)	Test Frequency (MHz)	RDC ( $\Omega$ ) Max	IDC (mA) Max
WDI3216-1R0 □	1.0	1MHz	0.364	510
WDI3216-2R2 □	2.2	1MHz	0.533	430
WDI3216-4R7 □	4.7	1MHz	0.845	340
WDI3216-100 □	10	1MHz	1.690	230
WDI3216-220 □	22	1MHz	3.900	160
WDI3216-470 □	47	1MHz	10.400	100
WDI3216-101 □	100	1MHz	15.600	80

### ELECTRICAL CHARACTERISTICS FOR WDI3225

Part No.	Inductance ( $\mu$ H)	Test Frequency (MHz)	RDC ( $\Omega$ ) Max	IDC (mA) Max
WDI3225-1R0□	1.0	1MHz	0.500	440
WDI3225-1R5□	1.5	1MHz	0.600	400
WDI3225-2R2□	2.2	1MHz	0.800	370
WDI3225-3R3□	3.3	1MHz	1.000	300
WDI3225-4R7□	4.7	1MHz	1.200	270
WDI3225-5R6□	5.6	1MHz	1.300	250
WDI3225-6R8□	6.8	1MHz	1.500	240
WDI3225-8R2□	8.2	1MHz	1.600	220
WDI3225-100□	10	1MHz	1.800	190
WDI3225-120□	12	1MHz	2.000	180
WDI3225-150□	15	1MHz	2.200	170
WDI3225-180□	18	1MHz	2.500	160
WDI3225-220□	22	1MHz	2.800	150
WDI3225-270□	27	1MHz	3.100	120
WDI3225-330□	33	1MHz	3.500	110
WDI3225-470□	47	1MHz	4.300	100
WDI3225-560□	56	1MHz	4.900	90
WDI3225-680□	68	1MHz	5.500	85
WDI3225-820□	82	1MHz	6.200	80
WDI3225-101□	100	1MHz	7.000	75
WDI3225-121□	120	1MHz	8.000	70
WDI3225-151□	150	1MHz	9.300	70
WDI3225-181□	180	1MHz	10.200	60

**CORE MASTER ENTERPRISE CO., LTD.**



<http://www.coremaster.com.tw>

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### ELECTRICAL CHARACTERISTICS FOR WDI3225

Part No.	Inductance (uH)	Test Frequency (MHz)	RDC (Ω) Max	IDC (mA) Max
WDI3225-221□	220	1MHz	11.800	60
WDI3225-271□	270	1MHz	12.500	60
WDI3225-331□	330	1MHz	13.000	60
WDI3225-391□	390	1MHz	22.000	50
WDI3225-471□	470	1MHz	25.000	45
WDI3225-561□	560	1MHz	28.000	40

### ELECTRICAL CHARACTERISTICS FOR WDI4532

Part No.	Inductance (uH)	Test Frequency (MHz)	RDC (Ω) Max	IDC (mA) Max
WDI4532-1R0□	1.0	1MHz	0.200	500
WDI4532-1R5□	1.5	1MHz	0.280	500
WDI4532-2R2□	2.2	1MHz	0.300	500
WDI4532-3R3□	3.3	1MHz	0.350	500
WDI4532-4R7□	4.7	1MHz	0.400	500
WDI4532-5R6□	5.6	1MHz	0.470	500
WDI4532-6R8□	6.8	1MHz	0.500	450
WDI4532-8R2□	8.2	1MHz	0.530	450
WDI4532-100□	10	1MHz	0.560	400
WDI4532-120□	12	1MHz	0.620	380
WDI4532-150□	15	1MHz	0.730	360
WDI4532-180□	18	1MHz	0.820	340
WDI4532-220□	22	1MHz	0.940	320
WDI4532-270□	27	1MHz	1.100	300
WDI4532-330□	33	1MHz	1.200	270
WDI4532-390□	39	1MHz	1.400	240
WDI4532-470□	47	1MHz	1.500	220
WDI4532-560□	56	1MHz	1.700	200
WDI4532-680□	68	1MHz	1.900	180
WDI4532-820□	82	1MHz	2.200	170
WDI4532-101□	100	1MHz	2.500	160
WDI4532-121□	120	1MHz	3.000	150
WDI4532-151□	150	1MHz	3.700	130
WDI4532-181□	180	1MHz	4.500	120

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### ELECTRICAL CHARACTERISTICS FOR WDI4532

Part No.	Inductance (uH)	Test Frequency (MHz)	RDC (Ω) Max	IDC (mA) Max
WDI4532-221□	220	1MHz	5.400	110
WDI4532-271□	270	1MHz	6.800	100
WDI4532-331□	330	1MHz	8.200	90
WDI4532-391□	390	1MHz	9.700	90
WDI4532-471□	470	1KHz	11.800	80
WDI4532-561□	560	1KHz	14.500	70
WDI4532-681□	680	1KHz	17.000	60
WDI4532-821□	820	1KHz	20.500	60
WDI4532-102□	1000	1KHz	25.000	50

### ELECTRICAL CHARACTERISTICS FOR WDI5750

Part No.	Inductance (uH)	Test Frequency (MHz)	RDC (Ω)Max	IDC (A) Max
WDI 5750-1R0 □	1.0	1MHz	0.027	4.00
WDI 5750-1R5 □	1.5	1MHz	0.031	3.70
WDI 5750-2R2 □	2.2	1MHz	0.041	3.20
WDI 5750-3R3 □	3.3	1MHz	0.050	2.90
WDI 5750-4R7 □	4.7	1MHz	0.057	2.70
WDI 5750-6R8 □	6.8	1MHz	0.104	2.00
WDI 5750-100 □	10	1MHz	0.130	1.70
WDI 5750-150 □	15	1MHz	0.210	1.40
WDI 5750-220 □	22	1MHz	0.266	1.20
WDI 5750-330 □	33	1MHz	0.448	0.90
WDI 5750-470 □	47	1MHz	0.560	0.80
WDI 5750-680 □	68	1MHz	0.938	0.64
WDI 5750-101 □	100	100KHz	1.204	0.56
WDI 5750-151 □	150	100KHz	2.660	0.42
WDI 5750-221 □	220	100KHz	3.360	0.32
WDI 5750-331 □	330	100KHz	6.160	0.27
WDI 5750-471 □	470	100KHz	7.560	0.24
WDI 5750-681 □	680	100KHz	11.340	0.19
WDI 5750-102 □	1000	10KHz	14.420	0.15

**Notes:**

- 1) Test Equipment : HP4284A or WK3260B LCR Meter.
- 2) DCR limits @ 20°C. Test Equipment: CH502BC.