

## Unshielded Construction - SMD / QPI Series

### Feature

1. Excellent soldability and heat resistance.
2. Suitable for flow and reflow soldering.
3. Packed in embossed carrier tape and can be used by automatic mounting machine.

### Application

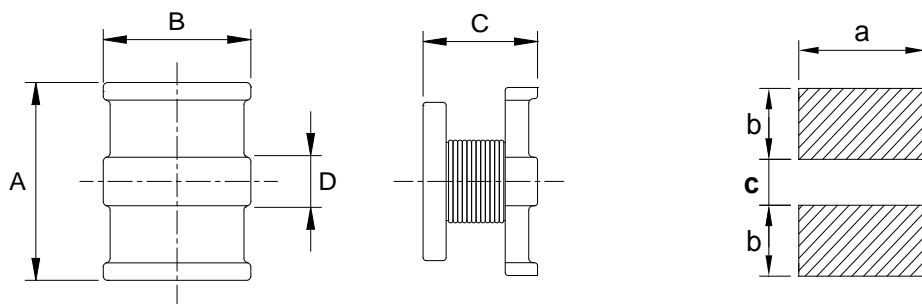
Excellent for power line DC/DC Conversion applications used in hard disk, notebook computer and other electronic equipment.

### Product Identification

**W QPI 3225 - 2R2** —  
**1 2 3 4 5**

1. Lead-Free part number.
2. Series name.
3. Dimension.
4. Inductance. ( See Details )
5. Tolerance. ( See Details )

### Configurations & Dimensions



PCB Pattern

Series Name	A	B	C	D	a	b	c
QPI2520	2.5±0.2	2.0±0.2	1.8±0.2	0.9 typ.	2.00	0.80	0.90
QPI3216	3.2±0.3	1.6±0.2	1.8±0.2	1.2 typ.	1.60	1.10	1.00
QPI3225	3.2±0.3	2.5±0.2	2.0±0.2	1.2 typ.	2.50	1.10	1.00
QPI4532	4.5±0.3	3.2±0.2	2.6±0.2	2.1 typ.	3.20	1.50	1.50

Unit: mm

## Unshielded Construction - SMD / QPI Series

### Electrical Characteristics / QPI2520

System Number	Part Number	Inductance / Test Frequency ( $\mu$ H ) / MHz	SRF Min. (MHz)	DC Resistance Max. ( $m\Omega$ )	Rated Current Max. ( mA )
WP11S0201-00	QPI2520-1R0__	1.0/7.96	200	442	475
WP11S0206-00	QPI2520-1R5__	1.5/7.96	165	546	435
WP11S0202-00	QPI2520-2R2__	2.2/7.96	95	650	390
WP11S0207-00	QPI2520-3R3__	3.3/7.96	55	845	340
WP11S0203-00	QPI2520-4R7__	4.7/7.96	43	1,040	285
WP11S0208-00	QPI2520-6R8__	6.8/7.96	39	1,300	275
WP11S0204-00	QPI2520-100__	10/2.52	32	2,197	210
WP11S0209-00	QPI2520-150__	15/2.52	21	2,860	175
WP11S0205-00	QPI2520-220__	22/2.52	18	3,640	160
WP11S0210-00	QPI2520-330__	33/2.52	16	5,460	120

### Electrical Characteristics / QPI3216

System Number	Part Number	Inductance / Test Frequency ( $\mu$ H ) / MHz	SRF Min. (MHz)	DC Resistance Max. ( $m\Omega$ )	Rated Current Max. ( mA )
WP11S0311-00	QPI3216-R12__	0.12/1.0	250	112	970
WP11S0312-00	QPI3216-R22__	0.22/1.0	250	140	850
WP11S0313-00	QPI3216-R47__	0.47/1.0	180	210	700
WP11S0301-00	QPI3216-1R0__	1.00/1.0	100	364	510
WP11S0302-00	QPI3216-2R2__	2.20/1.0	50	533	430
WP11S0303-00	QPI3216-4R7__	4.70/1.0	31	845	340
WP11S0304-00	QPI3216-100__	10.0/1.0	20	1,690	230
WP11S0305-00	QPI3216-220__	22.0/1.0	14	3,900	160
WP11S0314-00	QPI3216-470__	47.0/1.0	10	10,400	100
WP11S0315-00	QPI3216-101__	100/1.0	7.0	15,600	80

※ Rated current that will cause initial inductance value approximately 10% rolloff or temperature rise approximate 40°C without core loss. (Ta=25±5°C)

## Unshielded Construction - SMD / QPI Series

### Electrical Characteristics / QPI3225

System Number	Part Number	Inductance / Test Frequency ( $\mu$ H ) / MHz	SRF Min. (MHz)	DC Resistance Max. ( $m\Omega$ )	Rated Current Max. ( mA )
WP11S0401-00	QPI3225-1R0__	1.00/1.0	96	117	800
WP11S0402-00	QPI3225-2R2__	2.20/1.0	64	169	600
WP11S0403-00	QPI3225-4R7__	4.70/1.0	43	260	450
WP11S0404-00	QPI3225-100__	10.0/1.0	26	572	300
WP11S0405-00	QPI3225-220__	22.0/1.0	19	923	250
WP11S0414-00	QPI3225-470__	47.0/1.0	15	1,690	170
WP11S0415-00	QPI3225-101__	100/1.0	10	4,550	100
WP11S0416-00	QPI3225-221__	220/1.0	6.8	10,920	70
WP11S0417-00	QPI3225-331__	330/1.0	5.6	13,000	60
WP11S0418-00	QPI3225-391__	390/1.0	5.0	22,100	60
WP11S0419-00	QPI3225-471__	470/1.0	5.0	24,700	60
WP11S0420-00	QPI3225-561__	560/1.0	5.0	28,600	60

### Electrical Characteristics / QPI4532

System Number	Part Number	Inductance / Test Frequency ( $\mu$ H ) / MHz	SRF Min. (MHz)	DC Resistance Max. ( $m\Omega$ )	Rated Current Max. ( mA )
WP11S0501-00	QPI4532-1R0__	1.00/1.0	100	80	1,080
WP11S0506-00	QPI4532-1R5__	1.50/1.0	85	90	1,000
WP11S0502-00	QPI4532-2R2__	2.20/1.0	60	110	900
WP11S0507-00	QPI4532-3R3__	3.30/1.0	47	130	800
WP11S0503-00	QPI4532-4R7__	4.70/1.0	35	150	750
WP11S0508-00	QPI4532-6R8__	6.80/1.0	30	200	720
WP11S0504-00	QPI4532-100__	10.0/1.0	23	240	650
WP11S0509-00	QPI4532-150__	15.0/1.0	20	320	570
WP11S0505-00	QPI4532-220__	22.0/1.0	15	600	420
WP11S0510-00	QPI4532-330__	33.0/1.0	12	1,000	310
WP11S0514-00	QPI4532-470__	47.0/1.0	10	1,100	280
WP11S0521-00	QPI4532-680__	68.0/1.0	8.4	1,700	220
WP11S0515-00	QPI4532-101__	100/1.0	6.8	2,200	190
WP11S0522-00	QPI4532-151__	150/1.0	5.5	3,500	130
WP11S0516-00	QPI4532-221__	220/1.0	4.5	4,000	110
WP11S0517-00	QPI4532-331__	330/1.0	3.6	6,800	100
WP11S0519-00	QPI4532-471__	470/1.0	3.0	8,500	90

※ Rated current that will cause initial inductance value approximately 10% rolloff or temperature rise approximate 40°C

without core loss. ( $T_a=25\pm5^{\circ}\text{C}$ )