

## Unshielded Construction - SMD / QPT Series



### Feature

1. Excellent soldering ability and heat resistance.
2. Excellent terminal strength.
3. Packed in embossed carrier tape and can be used by automatic mounting machine.
4. Available in various sizes.
5. Easy to customized.

### Application

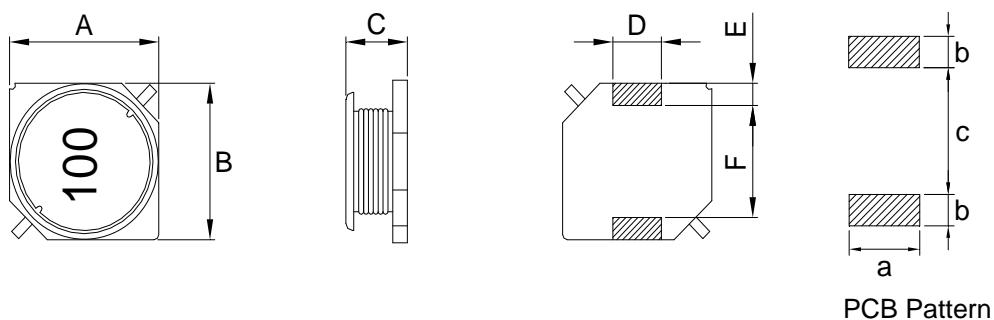
Power supply for VCR, OA equipment, LCD TV,  
Notebook PC, DC/DC Converter, DC/AC Inverter.

### Product Identification

**W QPT 0703 - 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



Series Name	A	B	C	D	E	F	a	b	c
QPT0603	6.0±0.3	6.0±0.3	2.9±0.3	2.0±0.2	1.5±0.2	3.0±0.2	2.20	1.90	2.80
QPT0604	6.0±0.3	6.0±0.3	3.9±0.3	2.0±0.2	1.5±0.2	3.0±0.2	2.20	1.90	2.80
QPT0605	6.0±0.3	6.0±0.3	4.9±0.3	2.0±0.2	1.5±0.2	3.0±0.2	2.20	1.90	2.80
QPT0703	7.0±0.3	7.0±0.3	3.0±0.3	2.0±0.2	1.5±0.2	4.0±0.2	2.20	1.90	3.70
QPT0705	7.0±0.3	7.0±0.3	4.6±0.3	2.0±0.2	1.5±0.2	4.0±0.2	2.20	1.90	3.70
QPT1003	10.0±0.3	10.0±0.3	3.0±0.3	2.4±0.2	2.0±0.2	6.0±0.2	2.80	2.50	5.70
QPT1004	10.0±0.3	10.0±0.3	4.6±0.3	2.4±0.2	2.0±0.2	6.0±0.2	2.80	2.50	5.70

Unit: mm

## Unshielded Construction - SMD / QPT Series

### ■ Electrical Characteristics / QPT0603

System Number	Part Number	Inductance ( $\mu$ H )	Test Frequency ( Volt / Hz )	DC Resistance Max. ( m $\Omega$ )	Rated Current Max. ( mA )
WP51S0101-00	QPT0603-1R2__	1.2	1.0/100K	25	2,800
WP51S0102-00	QPT0603-1R5__	1.5	1.0/100K	28	2,600
WP51S0103-00	QPT0603-2R2__	2.2	1.0/100K	30	2,300
WP51S0104-00	QPT0603-3R3__	3.3	1.0/100K	55	2,000
WP51S0105-00	QPT0603-4R7__	4.7	1.0/100K	65	1,850
WP51S0106-00	QPT0603-6R8__	6.8	1.0/100K	90	1,650
WP51S0107-00	QPT0603-100__	10	1.0/100K	115	1,450
WP51S0108-00	QPT0603-120__	12	1.0/100K	150	1,200
WP51S0109-00	QPT0603-150__	15	1.0/100K	180	1,150
WP51S0110-00	QPT0603-180__	18	1.0/100K	230	1,050
WP51S0111-00	QPT0603-220__	22	1.0/100K	250	1,000
WP51S0112-00	QPT0603-270__	27	1.0/100K	350	950
WP51S0113-00	QPT0603-330__	33	1.0/100K	380	900
WP51S0114-00	QPT0603-390__	39	1.0/100K	410	800
WP51S0115-00	QPT0603-470__	47	1.0/100K	430	750
WP51S0116-00	QPT0603-560__	56	1.0/100K	620	700
WP51S0117-00	QPT0603-680__	68	1.0/100K	710	600
WP51S0118-00	QPT0603-820__	82	1.0/100K	730	500
WP51S0119-00	QPT0603-101__	100	1.0/100K	1,050	480
WP51S0120-00	QPT0603-121__	120	1.0/100K	1,180	450
WP51S0121-00	QPT0603-151__	150	1.0/100K	1,800	400
WP51S0122-00	QPT0603-181__	180	1.0/100K	1,950	350
WP51S0123-00	QPT0603-221__	220	1.0/100K	2,960	300
WP51S0124-00	QPT0603-271__	270	1.0/100K	3,450	280
WP51S0125-00	QPT0603-331__	330	1.0/100K	3,800	260
WP51S0126-00	QPT0603-391__	390	1.0/100K	4,000	240
WP51S0127-00	QPT0603-471__	470	1.0/100K	4,400	220
WP51S0128-00	QPT0603-561__	560	1.0/100K	6,200	200
WP51S0129-00	QPT0603-681__	680	1.0/100K	6,800	180
WP51S0130-00	QPT0603-821__	820	1.0/100K	12,000	160
WP51S0131-00	QPT0603-102__	1000	1.0/100K	13,500	140

※ 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 / QPT Series

### Electrical Characteristics / QPT0604

System Number	Part Number	Inductance ( $\mu$ H )	Test Frequency ( Volt / Hz )	DC Resistance Max. ( m $\Omega$ )	Rated Current Max. ( mA )
WP51S0201-00	QPT0604-1R2__	1.2	1.0/100K	25	3,000
WP51S0232-00	QPT0604-1R8__	1.8	1.0/100K	30	2,850
WP51S0203-00	QPT0604-2R2__	2.2	1.0/100K	35	2,650
WP51S0204-00	QPT0604-3R3__	3.3	1.0/100K	40	2,350
WP51S0205-00	QPT0604-4R7__	4.7	1.0/100K	45	2,150
WP51S0206-00	QPT0604-6R8__	6.8	1.0/100K	60	1,850
WP51S0207-00	QPT0604-100__	10	1.0/100K	85	1,600
WP51S0208-00	QPT0604-120__	12	1.0/100K	90	1,500
WP51S0209-00	QPT0604-150__	15	1.0/100K	110	1,450
WP51S0210-00	QPT0604-180__	18	1.0/100K	120	1,300
WP51S0211-00	QPT0604-220__	22	1.0/100K	160	1,250
WP51S0212-00	QPT0604-270__	27	1.0/100K	190	1,100
WP51S0213-00	QPT0604-330__	33	1.0/100K	280	1,000
WP51S0214-00	QPT0604-390__	39	1.0/100K	300	900
WP51S0215-00	QPT0604-470__	47	1.0/100K	330	850
WP51S0216-00	QPT0604-560__	56	1.0/100K	410	800
WP51S0217-00	QPT0604-680__	68	1.0/100K	450	700
WP51S0218-00	QPT0604-820__	82	1.0/100K	600	600
WP51S0219-00	QPT0604-101__	100	1.0/100K	660	550
WP51S0220-00	QPT0604-121__	120	1.0/100K	720	500
WP51S0221-00	QPT0604-151__	150	1.0/100K	1,050	450
WP51S0222-00	QPT0604-181__	180	1.0/100K	1,150	400
WP51S0223-00	QPT0604-221__	220	1.0/100K	1,250	350
WP51S0224-00	QPT0604-271__	270	1.0/100K	1,800	300
WP51S0225-00	QPT0604-331__	330	1.0/100K	1,950	280
WP51S0226-00	QPT0604-391__	390	1.0/100K	2,780	250
WP51S0227-00	QPT0604-471__	470	1.0/100K	2,980	230
WP51S0228-00	QPT0604-561__	560	1.0/100K	3,300	210
WP51S0229-00	QPT0604-681__	680	1.0/100K	5,100	200
WP51S0230-00	QPT0604-821__	820	1.0/100K	5,400	180
WP51S0231-00	QPT0604-102__	1000	1.0/100K	6,000	160

※ 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 / QPT Series

### Electrical Characteristics / QPT0605

System Number	Part Number	Inductance ( $\mu$ H )	Test Frequency ( Volt / Hz )	DC Resistance Max. ( m $\Omega$ )	Rated Current Max. ( mA )
WP51S0301-00	QPT0605-1R2__	1.2	1.0/100K	28	3,500
WP51S0302-00	QPT0605-1R5__	1.5	1.0/100K	30	3,000
WP51S0303-00	QPT0605-2R2__	2.2	1.0/100K	35	2,700
WP51S0304-00	QPT0605-3R3__	3.3	1.0/100K	42	2,500
WP51S0305-00	QPT0605-4R7__	4.7	1.0/100K	50	2,200
WP51S0306-00	QPT0605-6R8__	6.8	1.0/100K	60	2,000
WP51S0307-00	QPT0605-100__	10	1.0/100K	70	1,800
WP51S0308-00	QPT0605-120__	12	1.0/100K	80	1,600
WP51S0309-00	QPT0605-150__	15	1.0/100K	90	1,500
WP51S0310-00	QPT0605-180__	15	1.0/100K	95	1,300
WP51S0311-00	QPT0605-220__	22	1.0/100K	110	1,200
WP51S0312-00	QPT0605-270__	27	1.0/100K	130	1,100
WP51S0313-00	QPT0605-330__	33	1.0/100K	180	1,000
WP51S0314-00	QPT0605-390__	39	1.0/100K	210	900
WP51S0315-00	QPT0605-470__	47	1.0/100K	220	800
WP51S0316-00	QPT0605-560__	56	1.0/100K	250	750
WP51S0317-00	QPT0605-680__	68	1.0/100K	300	700
WP51S0318-00	QPT0605-820__	82	1.0/100K	390	600
WP51S0319-00	QPT0605-101__	100	1.0/100K	430	550
WP51S0320-00	QPT0605-121__	120	1.0/100K	500	500
WP51S0321-00	QPT0605-151__	150	1.0/100K	620	450
WP51S0322-00	QPT0605-181__	180	1.0/100K	690	400
WP51S0323-00	QPT0605-221__	220	1.0/100K	890	380
WP51S0324-00	QPT0605-271__	270	1.0/100K	1,000	350
WP51S0325-00	QPT0605-331__	330	1.0/100K	1,400	320
WP51S0326-00	QPT0605-391__	390	1.0/100K	1,500	300
WP51S0327-00	QPT0605-471__	470	1.0/100K	2,000	280
WP51S0328-00	QPT0605-561__	560	1.0/100K	2,300	250
WP51S0329-00	QPT0605-681__	680	1.0/100K	3,200	200
WP51S0330-00	QPT0605-821__	820	1.0/100K	3,500	180
WP51S0331-00	QPT0605-102__	1000	1.0/100K	4,100	160

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

**Electrical Characteristics / QPT0703**

System Number	Part Number	Inductance ( $\mu$ H )	Test Frequency ( Volt / Hz )	DC Resistance Max. ( m $\Omega$ )	Rated Current Max. ( mA )
WP51S0433-00	QPT0703-1R0__	1.0	1.0/100K	20	3,200
WP51S0402-00	QPT0703-1R5__	1.5	1.0/100K	25	2,800
WP51S0403-00	QPT0703-2R2__	2.2	1.0/100K	35	2,500
WP51S0404-00	QPT0703-3R3__	3.3	1.0/100K	40	2,200
WP51S0405-00	QPT0703-4R7__	4.7	1.0/100K	45	2,000
WP51S0406-00	QPT0703-6R8__	6.8	1.0/100K	60	1,600
WP51S0407-00	QPT0703-100__	10	1.0/100K	80	1,400
WP51S0408-00	QPT0703-120__	12	1.0/100K	85	1,300
WP51S0409-00	QPT0703-150__	15	1.0/100K	110	1,100
WP51S0410-00	QPT0703-180__	18	1.0/100K	130	1,050
WP51S0411-00	QPT0703-220__	22	1.0/100K	150	1,000
WP51S0412-00	QPT0703-270__	27	1.0/100K	190	950
WP51S0413-00	QPT0703-330__	33	1.0/100K	210	850
WP51S0414-00	QPT0703-390__	39	1.0/100K	270	750
WP51S0415-00	QPT0703-470__	47	1.0/100K	310	700
WP51S0416-00	QPT0703-560__	56	1.0/100K	390	650
WP51S0417-00	QPT0703-680__	68	1.0/100K	430	600
WP51S0418-00	QPT0703-820__	82	1.0/100K	490	500
WP51S0419-00	QPT0703-101__	100	1.0/100K	650	450
WP51S0420-00	QPT0703-121__	120	1.0/100K	700	400
WP51S0421-00	QPT0703-151__	150	1.0/100K	850	350
WP51S0422-00	QPT0703-181__	180	1.0/100K	1,100	330
WP51S0423-00	QPT0703-221__	220	1.0/100K	1,250	300
WP51S0424-00	QPT0703-271__	270	1.0/100K	1,450	280
WP51S0425-00	QPT0703-331__	330	1.0/100K	2,000	250
WP51S0426-00	QPT0703-391__	390	1.0/100K	2,250	230
WP51S0427-00	QPT0703-471__	470	1.0/100K	2,600	220
WP51S0428-00	QPT0703-561__	560	1.0/100K	3,700	200
WP51S0429-00	QPT0703-681__	680	1.0/100K	4,300	180
WP51S0430-00	QPT0703-821__	820	1.0/100K	4,900	160
WP51S0431-00	QPT0703-102__	1000	1.0/100K	5,600	150

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

**Electrical Characteristics / QPT0705**

System Number	Part Number	Inductance ( $\mu$ H )	Test Frequency ( Volt / Hz )	DC Resistance Max. ( m $\Omega$ )	Rated Current Max. ( mA )
WP51S0533-00	QPT0705-1R0__	1.0	1.0/100K	23	3,500
WP51S0502-00	QPT0705-1R5__	1.5	1.0/100K	28	3,300
WP51S0503-00	QPT0705-2R2__	2.2	1.0/100K	33	3,200
WP51S0504-00	QPT0705-3R3__	3.3	1.0/100K	40	2,700
WP51S0505-00	QPT0705-4R7__	4.7	1.0/100K	50	2,500
WP51S0506-00	QPT0705-6R8__	6.8	1.0/100K	60	2,200
WP51S0507-00	QPT0705-100__	10	1.0/100K	75	2,000
WP51S0508-00	QPT0705-120__	12	1.0/100K	85	1,900
WP51S0509-00	QPT0705-150__	15	1.0/100K	90	1,500
WP51S0510-00	QPT0705-180__	18	1.0/100K	100	1,400
WP51S0511-00	QPT0705-220__	22	1.0/100K	120	1,300
WP51S0512-00	QPT0705-270__	27	1.0/100K	150	1,200
WP51S0513-00	QPT0705-330__	33	1.0/100K	180	1,100
WP51S0514-00	QPT0705-390__	39	1.0/100K	190	1,000
WP51S0515-00	QPT0705-470__	47	1.0/100K	220	900
WP51S0516-00	QPT0705-560__	56	1.0/100K	250	850
WP51S0517-00	QPT0705-680__	68	1.0/100K	270	800
WP51S0518-00	QPT0705-820__	82	1.0/100K	380	700
WP51S0519-00	QPT0705-101__	100	1.0/100K	420	650
WP51S0520-00	QPT0705-121__	120	1.0/100K	520	600
WP51S0521-00	QPT0705-151__	150	1.0/100K	580	500
WP51S0522-00	QPT0705-181__	180	1.0/100K	650	450
WP51S0523-00	QPT0705-221__	220	1.0/100K	880	400
WP51S0524-00	QPT0705-271__	270	1.0/100K	990	350
WP51S0525-00	QPT0705-331__	330	1.0/100K	1,100	320
WP51S0526-00	QPT0705-391__	390	1.0/100K	1,400	300
WP51S0527-00	QPT0705-471__	470	1.0/100K	1,900	280
WP51S0528-00	QPT0705-561__	560	1.0/100K	2,200	250
WP51S0529-00	QPT0705-681__	680	1.0/100K	2,500	220
WP51S0530-00	QPT0705-821__	820	1.0/100K	2,900	200
WP51S0531-00	QPT0705-102__	1000	1.0/100K	4,000	180

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

**Electrical Characteristics / QPT1003**

System Number	Part Number	Inductance ( $\mu$ H )	Test Frequency ( Volt / Hz )	DC Resistance Max. ( m $\Omega$ )	Rated Current Max. ( mA )
WP51S0632-00	QPT1003-1R8__	1.8	1.0/100K	27	4,000
WP51S0634-00	QPT1003-2R7__	2.7	1.0/100K	30	3,650
WP51S0635-00	QPT1003-3R9__	3.9	1.0/100K	35	3,150
WP51S0605-00	QPT1003-4R7__	4.7	1.0/100K	40	3,000
WP51S0606-00	QPT1003-6R8__	6.8	1.0/100K	50	2,350
WP51S0607-00	QPT1003-100__	10	1.0/100K	60	2,200
WP51S0608-00	QPT1003-120__	12	1.0/100K	80	2,000
WP51S0609-00	QPT1003-150__	15	1.0/100K	100	1,750
WP51S0610-00	QPT1003-180__	18	1.0/100K	110	1,700
WP51S0611-00	QPT1003-220__	22	1.0/100K	140	1,600
WP51S0612-00	QPT1003-270__	27	1.0/100K	160	1,400
WP51S0613-00	QPT1003-330__	33	1.0/100K	210	1,200
WP51S0614-00	QPT1003-390__	39	1.0/100K	235	1,100
WP51S0615-00	QPT1003-470__	47	1.0/100K	280	1,000
WP51S0616-00	QPT1003-560__	56	1.0/100K	320	900
WP51S0617-00	QPT1003-680__	68	1.0/100K	370	850
WP51S0618-00	QPT1003-820__	82	1.0/100K	430	740
WP51S0619-00	QPT1003-101__	100	1.0/100K	560	700
WP51S0620-00	QPT1003-121__	120	1.0/100K	640	600
WP51S0621-00	QPT1003-151__	150	1.0/100K	730	550
WP51S0622-00	QPT1003-181__	180	1.0/100K	960	500
WP51S0623-00	QPT1003-221__	220	1.0/100K	1,100	480
WP51S0624-00	QPT1003-271__	270	1.0/100K	1,240	450
WP51S0625-00	QPT1003-331__	330	1.0/100K	1,640	380
WP51S0626-00	QPT1003-391__	390	1.0/100K	1,790	350
WP51S0627-00	QPT1003-471__	470	1.0/100K	2,050	300
WP51S0628-00	QPT1003-561__	560	1.0/100K	2,890	290
WP51S0629-00	QPT1003-681__	680	1.0/100K	3,240	270
WP51S0630-00	QPT1003-821__	820	1.0/100K	3,700	250
WP51S0631-00	QPT1003-102__	1000	1.0/100K	7,000	240

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

## ■ Electrical Characteristics / QPT1004

System Number	Part Number	Inductance ( $\mu$ H )	Test Frequency ( Volt / Hz )	DC Resistance Max. ( m $\Omega$ )	Rated Current Max. ( mA )
WP51S0732-00	QPT1004-1R8__	1.8	1.0/100K	23	5,500
WP51S0734-00	QPT1004-2R7__	2.7	1.0/100K	25	5,000
WP51S0735-00	QPT1004-3R9__	3.9	1.0/100K	30	4,500
WP51S0705-00	QPT1004-4R7__	4.7	1.0/100K	35	4,000
WP51S0706-00	QPT1004-6R8__	6.8	1.0/100K	40	3,800
WP51S0707-00	QPT1004-100__	10	1.0/100K	50	3,300
WP51S0708-00	QPT1004-120__	12	1.0/100K	55	3,200
WP51S0709-00	QPT1004-150__	15	1.0/100K	65	3,000
WP51S0710-00	QPT1004-180__	18	1.0/100K	70	2,700
WP51S0711-00	QPT1004-220__	22	1.0/100K	80	2,600
WP51S0712-00	QPT1004-270__	27	1.0/100K	90	2,400
WP51S0713-00	QPT1004-330__	33	1.0/100K	110	2,000
WP51S0714-00	QPT1004-390__	39	1.0/100K	120	1,900
WP51S0715-00	QPT1004-470__	47	1.0/100K	130	1,800
WP51S0716-00	QPT1004-560__	56	1.0/100K	180	1,600
WP51S0717-00	QPT1004-680__	68	1.0/100K	210	1,400
WP51S0718-00	QPT1004-820__	82	1.0/100K	240	1,300
WP51S0719-00	QPT1004-101__	100	1.0/100K	290	1,200
WP51S0720-00	QPT1004-121__	120	1.0/100K	340	1,100
WP51S0721-00	QPT1004-151__	150	1.0/100K	470	1,000
WP51S0722-00	QPT1004-181__	180	1.0/100K	530	900
WP51S0723-00	QPT1004-221__	220	1.0/100K	730	800
WP51S0724-00	QPT1004-271__	270	1.0/100K	830	700
WP51S0725-00	QPT1004-331__	330	1.0/100K	990	650
WP51S0726-00	QPT1004-391__	390	1.0/100K	1,100	600
WP51S0727-00	QPT1004-471__	470	1.0/100K	1,250	550
WP51S0728-00	QPT1004-561__	560	1.0/100K	1,600	500
WP51S0729-00	QPT1004-681__	680	1.0/100K	1,800	450
WP51S0730-00	QPT1004-821__	820	1.0/100K	2,060	400
WP51S0731-00	QPT1004-102__	1000	1.0/100K	2,800	380

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