

Unshielded Construction - SMD / QPC Series

Feature

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



Application

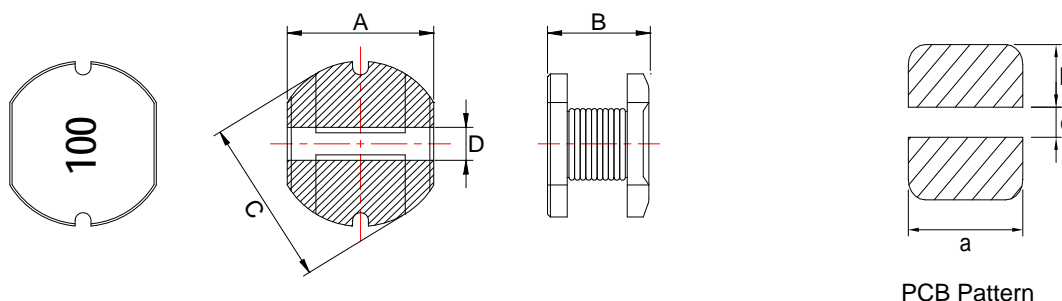
Power supply for VCR, OA equipment, LCD TV, Notebook PC, DC/DC Converter, DC/AC Inverter.

Product Identification

W **QPC** **0302** - **1R0** **—**
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	a	b	c
QPC0302	3.0±0.2	2.1±0.2	3.5±0.2	1.0 typ.	3.30	1.30	1.10
QPC0403	4.0±0.2	3.2±0.2	4.5±0.2	1.2 typ.	4.50	1.75	1.50
QPC0502	5.2±0.3	2.1±0.3	5.8±0.3	1.5 typ.	5.50	2.15	1.70
QPC0504	5.2±0.3	4.5±0.3	5.8±0.3	1.5 typ.	5.50	2.15	1.70
QPC0703	7.0±0.3	3.5±0.3	7.8±0.3	2.1 typ.	7.50	3.00	2.00
QPC0705	7.0±0.3	5.0±0.3	7.8±0.3	2.1 typ.	7.50	3.00	2.00
QPC1004	9.0±0.3	4.0±0.3	10.0±0.3	2.9 typ.	9.50	3.75	2.50
QPC1005	9.0±0.3	5.4±0.3	10.0±0.3	2.9 typ.	9.50	3.75	2.50

Unit: mm

Unshielded Construction - SMD / QPC Series

Electrical Characteristics / QPC0302

System Number	Part Number	Inductance (μ H)	Test Frequency (Volt / Hz)	DC Resistance Max. (m Ω)	Rated Current Max. (mA)
WP06S0101-00	QPC0302-1R0 __	1.0	1.0 / 7.96M	40	1,500
WP06S0102-00	QPC0302-1R4 __	1.4	1.0 / 7.96M	50	1,500
WP06S0103-00	QPC0302-1R8 __	1.8	1.0 / 7.96M	60	800
WP06S0104-00	QPC0302-2R2 __	2.2	1.0 / 7.96M	80	750
WP06S0105-00	QPC0302-2R7 __	2.7	1.0 / 7.96M	100	750
WP06S0106-00	QPC0302-3R3 __	3.3	1.0 / 7.96M	150	600
WP06S0107-00	QPC0302-3R9 __	3.9	1.0 / 7.96M	200	500
WP06S0108-00	QPC0302-4R7 __	4.7	1.0 / 7.96M	200	500
WP06S0109-00	QPC0302-5R6 __	5.6	1.0 / 7.96M	230	450
WP06S0110-00	QPC0302-6R8 __	6.8	1.0 / 7.96M	250	400
WP06S0111-00	QPC0302-8R2 __	8.2	1.0 / 7.96M	300	400
WP06S0112-00	QPC0302-100 __	10	1.0 / 2.52M	350	350
WP06S0113-00	QPC0302-120 __	12	1.0 / 2.52M	400	350
WP06S0114-00	QPC0302-150 __	15	1.0 / 2.52M	500	300
WP06S0115-00	QPC0302-180 __	18	1.0 / 2.52M	550	300
WP06S0116-00	QPC0302-220 __	22	1.0 / 2.52M	600	300
WP06S0117-00	QPC0302-270 __	27	1.0 / 2.52M	700	300
WP06S0118-00	QPC0302-330 __	33	1.0 / 2.52M	1,000	250
WP06S0119-00	QPC0302-390 __	39	1.0 / 2.52M	1,200	250
WP06S0120-00	QPC0302-470 __	47	1.0 / 2.52M	1,500	200
WP06S0121-00	QPC0302-560 __	56	1.0 / 2.52M	1,800	200
WP06S0122-00	QPC0302-680 __	68	1.0 / 2.52M	2,000	180
WP06S0123-00	QPC0302-820 __	82	1.0 / 2.52M	2,500	160
WP06S0124-00	QPC0302-101 __	100	1.0 / 1.0K	3,000	150
WP06S0125-00	QPC0302-121 __	120	1.0 / 1.0K	3,500	140
WP06S0126-00	QPC0302-151 __	150	1.0 / 1.0K	4,000	130
WP06S0127-00	QPC0302-181 __	180	1.0 / 1.0K	5,000	120
WP06S0128-00	QPC0302-221 __	220	1.0 / 1.0K	5,500	100
WP06S0129-00	QPC0302-271 __	270	1.0 / 1.0K	6,000	100
WP06S0130-00	QPC0302-331 __	330	1.0 / 1.0K	7,000	100
WP06S0131-00	QPC0302-391 __	390	1.0 / 1.0K	8,000	100
WP06S0132-00	QPC0302-471 __	470	1.0 / 1.0K	12,000	90

※ 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 / QPC Series

Electrical Characteristics / QPC0403

System Number	Part Number	Inductance (μH)	Test Frequency (Volt / Hz)	DC Resistance Max. ($\text{m}\Omega$)	Rated Current Max. (mA)
WP06S0201-00	QPC0403-1R0 __	1.0	1.0 / 7.96M	30	4,000
WP06S0202-00	QPC0403-1R4 __	1.4	1.0 / 7.96M	40	3,500
WP06S0203-00	QPC0403-1R8 __	1.8	1.0 / 7.96M	50	3,000
WP06S0204-00	QPC0403-2R2 __	2.2	1.0 / 7.96M	60	2,600
WP06S0205-00	QPC0403-2R7 __	2.7	1.0 / 7.96M	60	2,200
WP06S0206-00	QPC0403-3R3 __	3.3	1.0 / 7.96M	70	2,000
WP06S0207-00	QPC0403-3R9 __	3.9	1.0 / 7.96M	70	2,000
WP06S0208-00	QPC0403-4R7 __	4.7	1.0 / 7.96M	80	1,900
WP06S0209-00	QPC0403-5R6 __	5.6	1.0 / 7.96M	120	1,800
WP06S0210-00	QPC0403-6R8 __	6.8	1.0 / 7.96M	140	1,600
WP06S0211-00	QPC0403-8R2 __	8.2	1.0 / 7.96M	150	1,400
WP06S0212-00	QPC0403-100 __	10	1.0 / 2.52M	190	1,100
WP06S0213-00	QPC0403-120 __	12	1.0 / 2.52M	210	1,100
WP06S0214-00	QPC0403-150 __	15	1.0 / 2.52M	250	1,000
WP06S0215-00	QPC0403-180 __	18	1.0 / 2.52M	300	1,000
WP06S0216-00	QPC0403-220 __	22	1.0 / 2.52M	350	800
WP06S0217-00	QPC0403-270 __	27	1.0 / 2.52M	450	750
WP06S0218-00	QPC0403-330 __	33	1.0 / 2.52M	600	700
WP06S0219-00	QPC0403-390 __	39	1.0 / 2.52M	700	650
WP06S0220-00	QPC0403-470 __	47	1.0 / 2.52M	800	600
WP06S0221-00	QPC0403-560 __	56	1.0 / 2.52M	850	550
WP06S0222-00	QPC0403-680 __	68	1.0 / 2.52M	1,000	500
WP06S0223-00	QPC0403-820 __	82	1.0 / 2.52M	1,100	460
WP06S0224-00	QPC0403-101 __	100	1.0 / 1.0K	1,200	220
WP06S0225-00	QPC0403-121 __	120	1.0 / 1.0K	1,600	200
WP06S0226-00	QPC0403-151 __	150	1.0 / 1.0K	2,000	200
WP06S0227-00	QPC0403-181 __	180	1.0 / 1.0K	3,000	200
WP06S0228-00	QPC0403-221 __	220	1.0 / 1.0K	3,000	200
WP06S0229-00	QPC0403-271 __	270	1.0 / 1.0K	4,000	160
WP06S0230-00	QPC0403-331 __	330	1.0 / 1.0K	4,000	140
WP06S0231-00	QPC0403-391 __	390	1.0 / 1.0K	5,000	120
WP06S0232-00	QPC0403-471 __	470	1.0 / 1.0K	6,000	120
WP06S0233-00	QPC0403-561 __	560	1.0 / 1.0K	7,000	100

※ 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 / QPC Series

Electrical Characteristics / QPC0502

System Number	Part Number	Inductance (μ H)	Test Frequency (Volt / Hz)	DC Resistance Max. (m Ω)	Rated Current Max. (mA)
WP06S0301-00	QPC0502-1R0 __	1.0	1.0 / 7.96M	30	1,500
WP06S0302-00	QPC0502-1R4 __	1.4	1.0 / 7.96M	40	1,500
WP06S0303-00	QPC0502-1R8 __	1.8	1.0 / 7.96M	50	1,500
WP06S0304-00	QPC0502-2R2 __	2.2	1.0 / 7.96M	60	1,500
WP06S0305-00	QPC0502-2R7 __	2.7	1.0 / 7.96M	70	1,500
WP06S0306-00	QPC0502-3R3 __	3.3	1.0 / 7.96M	80	1,500
WP06S0307-00	QPC0502-3R9 __	3.9	1.0 / 7.96M	90	1,000
WP06S0308-00	QPC0502-4R7 __	4.7	1.0 / 7.96M	100	1,000
WP06S0309-00	QPC0502-5R6 __	5.6	1.0 / 7.96M	110	1,000
WP06S0310-00	QPC0502-6R8 __	6.8	1.0 / 7.96M	140	700
WP06S0311-00	QPC0502-8R2 __	8.2	1.0 / 7.96M	150	650
WP06S0312-00	QPC0502-100 __	10	1.0 / 2.52M	300	600
WP06S0313-00	QPC0502-120 __	12	1.0 / 2.52M	350	600
WP06S0314-00	QPC0502-150 __	15	1.0 / 2.52M	400	550
WP06S0315-00	QPC0502-180 __	18	1.0 / 2.52M	450	500
WP06S0316-00	QPC0502-220 __	22	1.0 / 2.52M	500	500
WP06S0317-00	QPC0502-270 __	27	1.0 / 2.52M	550	450
WP06S0318-00	QPC0502-330 __	33	1.0 / 2.52M	600	400
WP06S0319-00	QPC0502-390 __	39	1.0 / 2.52M	700	350
WP06S0320-00	QPC0502-470 __	47	1.0 / 2.52M	800	300
WP06S0321-00	QPC0502-560 __	56	1.0 / 2.52M	900	250
WP06S0322-00	QPC0502-680 __	68	1.0 / 2.52M	1,200	250
WP06S0323-00	QPC0502-820 __	82	1.0 / 2.52M	1,500	220
WP06S0324-00	QPC0502-101 __	100	1.0 / 1.0K	2,000	210
WP06S0325-00	QPC0502-121 __	120	1.0 / 1.0K	3,000	200
WP06S0326-00	QPC0502-151 __	150	1.0 / 1.0K	4,000	180
WP06S0327-00	QPC0502-181 __	180	1.0 / 1.0K	4,000	150
WP06S0328-00	QPC0502-221 __	220	1.0 / 1.0K	4,500	150
WP06S0329-00	QPC0502-271 __	270	1.0 / 1.0K	5,000	150
WP06S0330-00	QPC0502-331 __	330	1.0 / 1.0K	6,000	140
WP06S0331-00	QPC0502-391 __	390	1.0 / 1.0K	6,500	140
WP06S0332-00	QPC0502-471 __	470	1.0 / 1.0K	7,000	120
WP06S0333-00	QPC0502-561 __	560	1.0 / 1.0K	8,000	120

※ 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 / QPC Series

Electrical Characteristics / QPC0504

System Number	Part Number	Inductance (μ H)	Test Frequency (Volt / Hz)	DC Resistance Max. (m Ω)	Rated Current Max. (mA)
WP06S0401-00	QPC0504-1R0 __	1.0	1.0 / 7.96M	18	3,500
WP06S0402-00	QPC0504-1R4 __	1.4	1.0 / 7.96M	20	3,500
WP06S0403-00	QPC0504-1R8 __	1.8	1.0 / 7.96M	25	3,000
WP06S0404-00	QPC0504-2R2 __	2.2	1.0 / 7.96M	30	2,800
WP06S0405-00	QPC0504-2R7 __	2.7	1.0 / 7.96M	35	2,600
WP06S0406-00	QPC0504-3R3 __	3.3	1.0 / 7.96M	40	2,500
WP06S0407-00	QPC0504-3R9 __	3.9	1.0 / 7.96M	50	2,300
WP06S0408-00	QPC0504-4R7 __	4.7	1.0 / 7.96M	60	2,600
WP06S0409-00	QPC0504-5R6 __	5.6	1.0 / 7.96M	70	2,400
WP06S0410-00	QPC0504-6R8 __	6.8	1.0 / 7.96M	80	2,200
WP06S0411-00	QPC0504-8R2 __	8.2	1.0 / 7.96M	80	2,000
WP06S0412-00	QPC0504-100 __	10	1.0 / 2.52M	90	1,800
WP06S0413-00	QPC0504-120 __	12	1.0 / 2.52M	100	1,600
WP06S0414-00	QPC0504-150 __	15	1.0 / 2.52M	120	1,500
WP06S0415-00	QPC0504-180 __	18	1.0 / 2.52M	150	1,400
WP06S0416-00	QPC0504-220 __	22	1.0 / 2.52M	180	1,300
WP06S0417-00	QPC0504-270 __	27	1.0 / 2.52M	220	1,200
WP06S0418-00	QPC0504-330 __	33	1.0 / 2.52M	260	1,000
WP06S0419-00	QPC0504-390 __	39	1.0 / 2.52M	300	900
WP06S0420-00	QPC0504-470 __	47	1.0 / 2.52M	350	850
WP06S0421-00	QPC0504-560 __	56	1.0 / 2.52M	400	800
WP06S0422-00	QPC0504-680 __	68	1.0 / 2.52M	450	700
WP06S0423-00	QPC0504-820 __	82	1.0 / 2.52M	500	700
WP06S0424-00	QPC0504-101 __	100	1.0 / 1.0K	700	600
WP06S0425-00	QPC0504-121 __	120	1.0 / 1.0K	750	600
WP06S0426-00	QPC0504-151 __	150	1.0 / 1.0K	900	550
WP06S0427-00	QPC0504-181 __	180	1.0 / 1.0K	1,100	500
WP06S0428-00	QPC0504-221 __	220	1.0 / 1.0K	1,200	400
WP06S0429-00	QPC0504-271 __	270	1.0 / 1.0K	1,500	250
WP06S0430-00	QPC0504-331 __	330	1.0 / 1.0K	3,000	220
WP06S0431-00	QPC0504-391 __	390	1.0 / 1.0K	3,500	200
WP06S0432-00	QPC0504-471 __	470	1.0 / 1.0K	4,000	190
WP06S0433-00	QPC0504-561 __	560	1.0 / 1.0K	4,000	180
WP06S0434-00	QPC0504-681 __	680	1.0 / 1.0K	4,500	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)

Unshielded Construction - SMD / QPC Series

Electrical Characteristics / QPC0703

System Number	Part Number	Inductance (μH)	Test Frequency (Volt / Hz)	DC Resistance Max. ($\text{m}\Omega$)	Rated Current Max. (mA)
WP06S0512-00	QPC0703-100 __	10	1.0 / 2.52M	80	1,440
WP06S0513-00	QPC0703-120 __	12	1.0 / 2.52M	90	1,390
WP06S0514-00	QPC0703-150 __	15	1.0 / 2.52M	104	1,240
WP06S0515-00	QPC0703-180 __	18	1.0 / 2.52M	111	1,120
WP06S0516-00	QPC0703-220 __	22	1.0 / 2.52M	129	1,070
WP06S0517-00	QPC0703-270 __	27	1.0 / 2.52M	153	970
WP06S0518-00	QPC0703-330 __	33	1.0 / 2.52M	170	850
WP06S0519-00	QPC0703-390 __	39	1.0 / 2.52M	217	740
WP06S0520-00	QPC0703-470 __	47	1.0 / 2.52M	252	680
WP06S0521-00	QPC0703-560 __	56	1.0 / 2.52M	282	640
WP06S0522-00	QPC0703-680 __	68	1.0 / 2.52M	332	590
WP06S0523-00	QPC0703-820 __	82	1.0 / 2.52M	406	540
WP06S0524-00	QPC0703-101 __	100	1.0 / 1.0K	481	510
WP06S0525-00	QPC0703-121 __	120	1.0 / 1.0K	536	490
WP06S0526-00	QPC0703-151 __	150	1.0 / 1.0K	755	400
WP06S0527-00	QPC0703-181 __	180	1.0 / 1.0K	1,022	360
WP06S0528-00	QPC0703-221 __	220	1.0 / 1.0K	1,200	310
WP06S0529-00	QPC0703-271 __	270	1.0 / 1.0K	1,306	290
WP06S0530-00	QPC0703-331 __	330	1.0 / 1.0K	1,495	280

Electrical Characteristics / QPC0705

System Number	Part Number	Inductance (μH)	Test Frequency (Volt / Hz)	DC Resistance Max. ($\text{m}\Omega$)	Rated Current Max. (mA)
WP06S0612-00	QPC0705-100 __	10	1.0 / 2.52M	70	2,300
WP06S0613-00	QPC0705-120 __	12	1.0 / 2.52M	80	2,000
WP06S0614-00	QPC0705-150 __	15	1.0 / 2.52M	90	1,800
WP06S0615-00	QPC0705-180 __	18	1.0 / 2.52M	100	1,600
WP06S0616-00	QPC0705-220 __	22	1.0 / 2.52M	110	1,500
WP06S0617-00	QPC0705-270 __	27	1.0 / 2.52M	120	1,300
WP06S0618-00	QPC0705-330 __	33	1.0 / 2.52M	130	1,200
WP06S0619-00	QPC0705-390 __	39	1.0 / 2.52M	160	1,100
WP06S0620-00	QPC0705-470 __	47	1.0 / 2.52M	180	1,100
WP06S0621-00	QPC0705-560 __	56	1.0 / 2.52M	240	940
WP06S0622-00	QPC0705-680 __	68	1.0 / 2.52M	280	850
WP06S0623-00	QPC0705-820 __	82	1.0 / 2.52M	370	780
WP06S0624-00	QPC0705-101 __	100	1.0 / 1.0K	430	720
WP06S0625-00	QPC0705-121 __	120	1.0 / 1.0K	470	660
WP06S0626-00	QPC0705-151 __	150	1.0 / 1.0K	640	580
WP06S0627-00	QPC0705-181 __	180	1.0 / 1.0K	710	510
WP06S0628-00	QPC0705-221 __	220	1.0 / 1.0K	960	490
WP06S0629-00	QPC0705-271 __	270	1.0 / 1.0K	1,110	420
WP06S0630-00	QPC0705-331 __	330	1.0 / 1.0K	1,260	400
WP06S0631-00	QPC0705-391 __	390	1.0 / 1.0K	1,770	360
WP06S0632-00	QPC0705-471 __	470	1.0 / 1.0K	1,960	340

※ 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 / QPC Series

Electrical Characteristics / QPC1004

System Number	Part Number	Inductance (μH)	Test Frequency (Volt / Hz)	DC Resistance Max. ($\text{m}\Omega$)	Rated Current Max. (mA)
WP06S0712-00	QPC1004-100 __	10	1.0 / 2.52M	53	2,380
WP06S0713-00	QPC1004-120 __	12	1.0 / 2.52M	61	2,130
WP06S0714-00	QPC1004-150 __	15	1.0 / 2.52M	70	1,870
WP06S0715-00	QPC1004-180 __	18	1.0 / 2.52M	81	1,730
WP06S0716-00	QPC1004-220 __	22	1.0 / 2.52M	88	1,600
WP06S0717-00	QPC1004-270 __	27	1.0 / 2.52M	100	1,440
WP06S0718-00	QPC1004-330 __	33	1.0 / 2.52M	120	1,260
WP06S0719-00	QPC1004-390 __	39	1.0 / 2.52M	151	1,200
WP06S0720-00	QPC1004-470 __	47	1.0 / 2.52M	170	1,100
WP06S0721-00	QPC1004-560 __	56	1.0 / 2.52M	199	1,010
WP06S0722-00	QPC1004-680 __	68	1.0 / 2.52M	223	910
WP06S0723-00	QPC1004-820 __	82	1.0 / 2.52M	252	850
WP06S0724-00	QPC1004-101 __	100	1.0 / 1.0K	344	740
WP06S0725-00	QPC1004-121 __	120	1.0 / 1.0K	396	690
WP06S0726-00	QPC1004-151 __	150	1.0 / 1.0K	544	610
WP06S0727-00	QPC1004-181 __	180	1.0 / 1.0K	621	560
WP06S0728-00	QPC1004-221 __	220	1.0 / 1.0K	721	530
WP06S0729-00	QPC1004-271 __	270	1.0 / 1.0K	949	450
WP06S0730-00	QPC1004-331 __	330	1.0 / 1.0K	1,100	420
WP06S0731-00	QPC1004-391 __	390	1.0 / 1.0K	1,245	380
WP06S0732-00	QPC1004-471 __	470	1.0 / 1.0K	1,526	350
WP06S0733-00	QPC1004-561 __	560	1.0 / 1.0K	1,904	320

Electrical Characteristics / QPC1005

System Number	Part Number	Inductance (μH)	Test Frequency (Volt / Hz)	DC Resistance Max. ($\text{m}\Omega$)	Rated Current Max. (mA)
WP06S0812-00	QPC1005-100 __	10	1.0 / 2.52M	60	2,600
WP06S0813-00	QPC1005-120 __	12	1.0 / 2.52M	70	2,450
WP06S0814-00	QPC1005-150 __	15	1.0 / 2.52M	80	2,270
WP06S0815-00	QPC1005-180 __	18	1.0 / 2.52M	90	2,150
WP06S0816-00	QPC1005-220 __	22	1.0 / 2.52M	100	1,950
WP06S0817-00	QPC1005-270 __	27	1.0 / 2.52M	110	1,760
WP06S0818-00	QPC1005-330 __	33	1.0 / 2.52M	120	1,500
WP06S0819-00	QPC1005-390 __	39	1.0 / 2.52M	140	1,370
WP06S0820-00	QPC1005-470 __	47	1.0 / 2.52M	170	1,280
WP06S0821-00	QPC1005-560 __	56	1.0 / 2.52M	190	1,170
WP06S0822-00	QPC1005-680 __	68	1.0 / 2.52M	220	1,110
WP06S0823-00	QPC1005-820 __	82	1.0 / 2.52M	250	1,000
WP06S0824-00	QPC1005-101 __	100	1.0 / 1.0K	350	970
WP06S0825-00	QPC1005-121 __	120	1.0 / 1.0K	400	890
WP06S0826-00	QPC1005-151 __	150	1.0 / 1.0K	470	780
WP06S0827-00	QPC1005-181 __	180	1.0 / 1.0K	630	720
WP06S0828-00	QPC1005-221 __	220	1.0 / 1.0K	730	660
WP06S0829-00	QPC1005-271 __	270	1.0 / 1.0K	970	570
WP06S0830-00	QPC1005-331 __	330	1.0 / 1.0K	1,150	520
WP06S0831-00	QPC1005-391 __	390	1.0 / 1.0K	1,300	480
WP06S0832-00	QPC1005-471 __	470	1.0 / 1.0K	1,480	420
WP06S0833-00	QPC1005-561 __	560	1.0 / 1.0K	1,900	330
WP06S0834-00	QPC1005-681 __	680	1.0 / 1.0K	2,250	280
WP06S0835-00	QPC1005-821 __	820	1.0 / 1.0K	2,550	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)