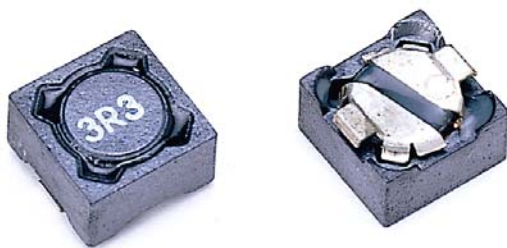


Shielded Construction - SMD / QPCRH Series



Feature

1. High current and inductance capacity.
2. Specially designed for surface mounting.
equipment, good for high density application.
3. Low profile very effective in space-conscious applications.
4. Low resistance and high-energy storage.

Application

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

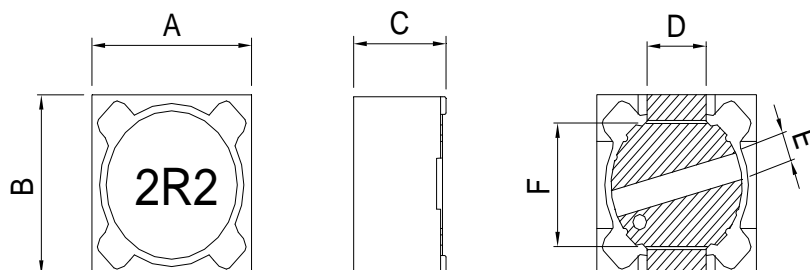
Product Identification

W QPCRH 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)

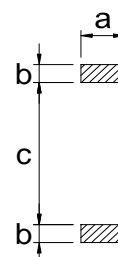
Configurations & Dimensions



Series Name	A	B	C	D	E	F
QPCRH0703	7.6 max.	7.6 max.	3.8 max.	2.0 typ.	1.0 typ.	5.2 typ.
QPCRH0704	7.6 max.	7.6 max.	4.5 max.	2.0 typ.	1.0 typ.	5.2 typ.

Series Name	a	b	c
QPCRH0703	2.20	1.60	4.80
QPCRH0704	2.20	1.60	4.80

Unit: mm



PCB Pattern

Shielded Construction - SMD / QPCRH Series

■ Electrical Characteristics / QPCRH0703

System Number	Part Number	Inductance (μ H)	Test Condition (Volt / Hz)	DC Resistance Max. (m Ω)	Rated Current Max. (mA)
WP09S0302-00	QPCRH0703-1R5 __	1.5	1.0 / 100K	26	3,000
WP09S0303-00	QPCRH0703-2R2 __	2.2	1.0 / 100K	30	2,800
WP09S0304-00	QPCRH0703-3R3 __	3.3	1.0 / 100K	35	2,500
WP09S0305-00	QPCRH0703-4R7 __	4.7	1.0 / 100K	39	2,200
WP09S0322-00	QPCRH0703-5R6 __	5.6	1.0 / 100K	49	2,000
WP09S0306-00	QPCRH0703-6R8 __	6.8	1.0 / 100K	53	1,900
WP09S0320-00	QPCRH0703-8R2 __	8.2	1.0 / 100K	58	1,800
WP09S0307-00	QPCRH0703-100 __	10	1.0 / 100K	72	1,680
WP09S0308-00	QPCRH0703-120 __	12	1.0 / 100K	98	1,520
WP09S0309-00	QPCRH0703-150 __	15	1.0 / 100K	130	1,330
WP09S0310-00	QPCRH0703-180 __	18	1.0 / 100K	140	1,200
WP09S0311-00	QPCRH0703-220 __	22	1.0 / 100K	190	1,070
WP09S0312-00	QPCRH0703-270 __	27	1.0 / 100K	210	960
WP09S0313-00	QPCRH0703-330 __	33	1.0 / 100K	240	910
WP09S0314-00	QPCRH0703-390 __	39	1.0 / 100K	320	770
WP09S0315-00	QPCRH0703-470 __	47	1.0 / 100K	360	760
WP09S0316-00	QPCRH0703-560 __	56	1.0 / 100K	470	680
WP09S0317-00	QPCRH0703-680 __	68	1.0 / 100K	520	610
WP09S0318-00	QPCRH0703-820 __	82	1.0 / 100K	690	570
WP09S0319-00	QPCRH0703-101 __	100	1.0 / 100K	790	500
WP09S0323-00	QPCRH0703-121 __	120	1.0 / 100K	890	490
WP09S0321-00	QPCRH0703-151 __	150	1.0 / 100K	1,270	430
WP09S0324-00	QPCRH0703-181 __	180	1.0 / 100K	1,450	390
WP09S0325-00	QPCRH0703-221 __	220	1.0 / 100K	1,650	350
WP09S0326-00	QPCRH0703-271 __	270	1.0 / 100K	2,310	320
WP09S0327-00	QPCRH0703-331 __	330	1.0 / 100K	2,620	280
WP09S0328-00	QPCRH0703-391 __	390	1.0 / 100K	2,940	260
WP09S0329-00	QPCRH0703-471 __	470	1.0 / 100K	4,180	240
WP09S0330-00	QPCRH0703-561 __	560	1.0 / 100K	4,670	220
WP09S0331-00	QPCRH0703-681 __	680	1.0 / 100K	5,730	190
WP09S0332-00	QPCRH0703-821 __	820	1.0 / 100K	6,540	180
WP09S0333-00	QPCRH0703-102 __	1000	1.0 / 100K	9,440	160

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

Shielded Construction - SMD / QPCRH Series

Electrical Characteristics / QPCRH0704

System Number	Part Number	Inductance (μH)	Test Condition (Volt / Hz)	DC Resistance Max. ($\text{m}\Omega$)	Rated Current Max. (mA)
WP09S0402-00	QPCRH0704-1R5 __	1.5	1.0 / 100K	25	4,000
WP09S0403-00	QPCRH0704-2R2 __	2.2	1.0 / 100K	28	3,600
WP09S0404-00	QPCRH0704-3R3 __	3.3	1.0 / 100K	30	3,500
WP09S0405-00	QPCRH0704-4R7 __	4.7	1.0 / 100K	33	3,300
WP09S0422-00	QPCRH0704-5R6 __	5.6	1.0 / 100K	34	3,000
WP09S0406-00	QPCRH0704-6R8 __	6.8	1.0 / 100K	38	2,800
WP09S0420-00	QPCRH0704-8R2 __	8.2	1.0 / 100K	43	2,600
WP09S0407-00	QPCRH0704-100 __	10	1.0 / 100K	60	1,840
WP09S0408-00	QPCRH0704-120 __	12	1.0 / 100K	70	1,710
WP09S0409-00	QPCRH0704-150 __	15	1.0 / 100K	81	1,470
WP09S0410-00	QPCRH0704-180 __	18	1.0 / 100K	91	1,310
WP09S0411-00	QPCRH0704-220 __	22	1.0 / 100K	120	1,230
WP09S0412-00	QPCRH0704-270 __	27	1.0 / 100K	150	1,120
WP09S0413-00	QPCRH0704-330 __	33	1.0 / 100K	170	960
WP09S0414-00	QPCRH0704-390 __	39	1.0 / 100K	230	910
WP09S0415-00	QPCRH0704-470 __	47	1.0 / 100K	260	880
WP09S0416-00	QPCRH0704-560 __	56	1.0 / 100K	350	750
WP09S0417-00	QPCRH0704-680 __	68	1.0 / 100K	380	690
WP09S0418-00	QPCRH0704-820 __	82	1.0 / 100K	430	610
WP09S0419-00	QPCRH0704-101 __	100	1.0 / 100K	610	600
WP09S0423-00	QPCRH0704-121 __	120	1.0 / 100K	660	520
WP09S0421-00	QPCRH0704-151 __	150	1.0 / 100K	880	460
WP09S0424-00	QPCRH0704-181 __	180	1.0 / 100K	980	420
WP09S0425-00	QPCRH0704-221 __	220	1.0 / 100K	1,170	360
WP09S0426-00	QPCRH0704-271 __	270	1.0 / 100K	1,640	340
WP09S0427-00	QPCRH0704-331 __	330	1.0 / 100K	1,860	320
WP09S0428-00	QPCRH0704-391 __	390	1.0 / 100K	2,850	290
WP09S0429-00	QPCRH0704-471 __	470	1.0 / 100K	3,010	260
WP09S0430-00	QPCRH0704-561 __	560	1.0 / 100K	3,620	230
WP09S0431-00	QPCRH0704-681 __	680	1.0 / 100K	4,630	220
WP09S0432-00	QPCRH0704-821 __	820	1.0 / 100K	5,200	200
WP09S0433-00	QPCRH0704-102 __	1000	1.0 / 100K	6,000	180

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

Shielded Construction - SMD / QPCRH Series



Feature

1. High current and inductance capacity.
2. Specially designed for surface mounting.
equipment, good for high density application.
3. Low profile very effective in space-conscious applications.
4. Low resistance and high-energy storage.

Application

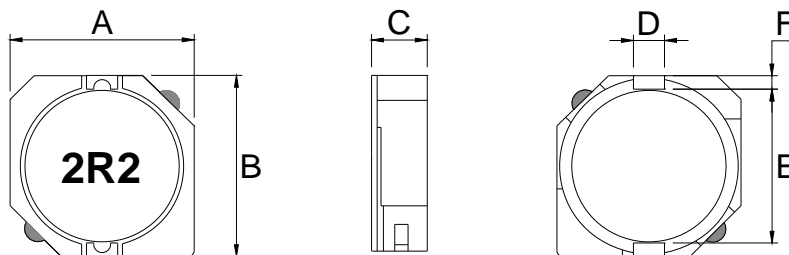
Power supply for VTR, OA equipment, LCD TV,
Notebook PC, DC/DC Converter, DC/AC Inverter.

Product Identification

W QPCRH 1003R - 2R2
1 2 3 4 5

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

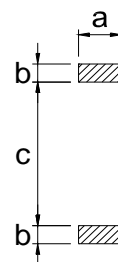
Configurations & Dimensions



Series Name	A	B	C	D	E	F
QPCRH1003R	10.5 max.	10.5 max.	3.1 max.	3.0±0.2	7.7±0.3	1.2±0.2
QPCRH1004R	10.6 max.	10.6 max.	4.1 max.	3.0±0.2	8.2ref	1.2±0.2
QPCRH1005R	10.5 max.	10.5 max.	5.1 max.	3.0±0.2	7.7±0.3	1.2±0.2

Series Name	a	b	c
QPCRH1003R	3.20	1.60	7.30
QPCRH1004R	3.20	1.60	7.30
QPCRH1005R	3.20	1.60	7.30

Unit: mm



PCB Pattern

Shielded Construction - SMD / QPCRH Series

Electrical Characteristics / QPCRH1003R

System Number	Part Number	Inductance (μ H)	Test Condition (Volt / Hz)	DC Resistance Max. (m Ω)	Rated Current Max. (mA)
WP09S0502-00	QPCRH1003R-1R5 __	1.5	1.0 / 100K	18	5,000
WP09S0503-00	QPCRH1003R-2R2 __	2.2	1.0 / 100K	20	4,800
WP09S0504-00	QPCRH1003R-3R3 __	3.3	1.0 / 100K	25	4,500
WP09S0505-00	QPCRH1003R-4R7 __	4.7	1.0 / 100K	30	4,300
WP09S0506-00	QPCRH1003R-6R8 __	6.8	1.0 / 100K	40	3,900
WP09S0520-00	QPCRH1003R-8R2 __	8.2	1.0 / 100K	50	3,500
WP09S0507-00	QPCRH1003R-100 __	10	1.0 / 100K	59	3,180
WP09S0509-00	QPCRH1003R-150 __	15	1.0 / 100K	91	2,600
WP09S0511-00	QPCRH1003R-220 __	22	1.0 / 100K	143	2,160
WP09S0513-00	QPCRH1003R-330 __	33	1.0 / 100K	213	1,740
WP09S0515-00	QPCRH1003R-470 __	47	1.0 / 100K	299	1,430
WP09S0516-00	QPCRH1003R-560 __	56	1.0 / 100K	335	1,360
WP09S0517-00	QPCRH1003R-680 __	68	1.0 / 100K	429	1,220
WP09S0518-00	QPCRH1003R-820 __	82	1.0 / 100K	494	1,140
WP09S0519-00	QPCRH1003R-101 __	100	1.0 / 100K	683	1,020
WP09S0523-00	QPCRH1003R-121 __	120	1.0 / 100K	754	890
WP09S0521-00	QPCRH1003R-151 __	150	1.0 / 100K	871	840
WP09S0525-00	QPCRH1003R-221 __	220	1.0 / 100K	997	700
WP09S0527-00	QPCRH1003R-331 __	330	1.0 / 100K	1,578	500

※ Rated current that will cause initial inductance value approximately 35% rolloff or temperature rise approximate 40°C without core loss. (Ta=25±5°C)

Shielded Construction - SMD / QPCRH Series

■ Electrical Characteristics / QPCRH1004R

System Number	Part Number	Inductance (μ H)	Test Condition (Volt / Hz)	DC Resistance Max. (m Ω)	Rated Current Max. (mA)
WP09S0602-00	QPCRH1004R-1R5 __	1.5	1.0 / 100K	9	10,000
WP09S0603-00	QPCRH1004R-2R2 __	2.2	1.0 / 100K	12	7,500
WP09S0604-00	QPCRH1004R-3R3 __	3.3	1.0 / 100K	15	6,000
WP09S0634-00	QPCRH1004R-5R2 __	5.2	1.0 / 100K	22	5,500
WP09S0635-00	QPCRH1004R-7R0 __	7	1.0 / 100K	27	4,800
WP09S0607-00	QPCRH1004R-100 __	10	1.0 / 100K	42	4,400
WP09S0609-00	QPCRH1004R-150 __	15	1.0 / 100K	56	3,600
WP09S0611-00	QPCRH1004R-220 __	22	1.0 / 100K	73	2,900
WP09S0613-00	QPCRH1004R-330 __	33	1.0 / 100K	105	2,300
WP09S0615-00	QPCRH1004R-470 __	47	1.0 / 100K	144	2,100
WP09S0617-00	QPCRH1004R-680 __	68	1.0 / 100K	213	1,500
WP09S0619-00	QPCRH1004R-101 __	100	1.0 / 100K	304	1,350
WP09S0621-00	QPCRH1004R-151 __	150	1.0 / 100K	506	1,150
WP09S0625-00	QPCRH1004R-221 __	220	1.0 / 100K	756	920
WP09S0627-00	QPCRH1004R-331 __	330	1.0 / 100K	1090	700

※ Rated current that will cause initial inductance value approximately 35% rolloff or temperature rise approximate 40°C without core loss. (Ta=25±5°C)

Shielded Construction - SMD / QPCRH Series

Electrical Characteristics / QPCRH1005R

System Number	Part Number	Inductance (μ H)	Test Condition (Volt / Hz)	DC Resistance Max. (m Ω)	Rated Current Max. (mA)
WP09S0736-00	QPCRH1005R-1R2 __	1.2	1.0 / 100K	7	10,500
WP09S0703-00	QPCRH1005R-2R2 __	2.2	1.0 / 100K	8	9,300
WP09S0704-00	QPCRH1005R-3R3 __	3.3	1.0 / 100K	11	7,800
WP09S0705-00	QPCRH1005R-4R7 __	4.7	1.0 / 100K	13	6,400
WP09S0722-00	QPCRH1005R-5R6 __	5.6	1.0 / 100K	16	5,900
WP09S0706-00	QPCRH1005R-6R8 __	6.8	1.0 / 100K	18	5,400
WP09S0720-00	QPCRH1005R-8R2 __	8.2	1.0 / 100K	22	4,850
WP09S0707-00	QPCRH1005R-100 __	10	1.0 / 100K	26	4,450
WP09S0708-00	QPCRH1005R-120 __	12	1.0 / 100K	33	4,000
WP09S0709-00	QPCRH1005R-150 __	15	1.0 / 100K	41	3,600
WP09S0710-00	QPCRH1005R-180 __	18	1.0 / 100K	46	3,200
WP09S0711-00	QPCRH1005R-220 __	22	1.0 / 100K	61	2,950
WP09S0712-00	QPCRH1005R-270 __	27	1.0 / 100K	69	2,700
WP09S0713-00	QPCRH1005R-330 __	33	1.0 / 100K	84	2,400
WP09S0714-00	QPCRH1005R-390 __	39	1.0 / 100K	106	2,300
WP09S0715-00	QPCRH1005R-470 __	47	1.0 / 100K	130	2,000
WP09S0716-00	QPCRH1005R-560 __	56	1.0 / 100K	149	1,900
WP09S0717-00	QPCRH1005R-680 __	68	1.0 / 100K	201	1,650
WP09S0718-00	QPCRH1005R-820 __	82	1.0 / 100K	227	1,500
WP09S0719-00	QPCRH1005R-101 __	100	1.0 / 100K	253	1,350
WP09S0723-00	QPCRH1005R-121 __	120	1.0 / 100K	303	1,280
WP09S0721-00	QPCRH1005R-151 __	150	1.0 / 100K	370	1,120
WP09S0724-00	QPCRH1005R-181 __	180	1.0 / 100K	419	1,040
WP09S0725-00	QPCRH1005R-221 __	220	1.0 / 100K	500	940
WP09S0726-00	QPCRH1005R-271 __	270	1.0 / 100K	672	840
WP09S0727-00	QPCRH1005R-331 __	330	1.0 / 100K	812	750
WP09S0728-00	QPCRH1005R-391 __	390	1.0 / 100K	953	700
WP09S0729-00	QPCRH1005R-471 __	470	1.0 / 100K	1,290	600
WP09S0730-00	QPCRH1005R-561 __	560	1.0 / 100K	1,430	540
WP09S0731-00	QPCRH1005R-681 __	680	1.0 / 100K	1,600	520
WP09S0732-00	QPCRH1005R-821 __	820	1.0 / 100K	1,770	500
WP09S0733-00	QPCRH1005R-102 __	1000	1.0 / 100K	1,990	480

※ Rated current that will cause initial inductance value approximately 35% rolloff or temperature rise approximate 40°C without core loss. (Ta=25±5°C)