

Shielded Construction - SMD / QPCR 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

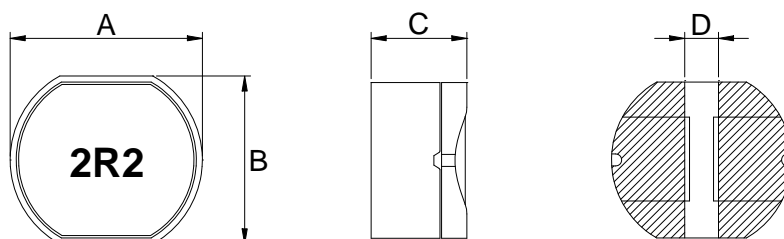
Power supply for VCR, OA equipment, LCD TV,
Notebook PC, DC/DC Converter, DC/AC Inverter.

Product Identification

W **QPCR** **0603** - **100** **—**
1 **2** **3** **4** **5**

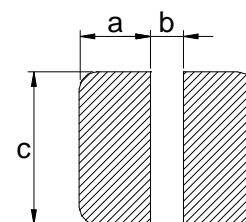
1. Lead-Free part number.
2. Series name.
3. Dimension.
4. Inductance. (See Details)
5. Tolerance. (See Details)

Configurations & Dimensions



Series Name	A	B	C	D
QPCR0603	6.5 max.	5.9 max.	3.5 max.	1.7 typ.
QPCR0704	8.3 max.	7.5 max.	4.9 max.	1.9 typ.
QPCR1005	10.5 max.	9.5 max.	5.5 max.	2.5 typ.
QPCR1205	13.1 max.	12.1 max.	5.9 max.	3.0 typ.

Series Name	a	b	c
QPCR0603	2.25	1.70	5.50
QPCR0704	4.00	2.00	7.50
QPCR1005	5.00	2.50	9.50
QPCR1205	6.00	3.00	12.00



Unit: mm

PCB Pattern

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Electrical Characteristics / QPCR0603

System Number	Part Number	Inductance (μ H)	Test Condition (Volt / Hz)	DC Resistance Max. (m Ω)	Rated Current Max. (mA)
WP08S0107-00	QPCR0603-100 __	10	1.0 / 100K	140	1,000
WP08S0108-00	QPCR0603-120 __	12	1.0 / 100K	160	940
WP08S0109-00	QPCR0603-150 __	15	1.0 / 100K	180	860
WP08S0110-00	QPCR0603-180 __	18	1.0 / 100K	250	780
WP08S0111-00	QPCR0603-220 __	22	1.0 / 100K	320	760
WP08S0112-00	QPCR0603-270 __	27	1.0 / 100K	360	640
WP08S0113-00	QPCR0603-330 __	33	1.0 / 100K	410	610
WP08S0114-00	QPCR0603-390 __	39	1.0 / 100K	470	530
WP08S0115-00	QPCR0603-470 __	47	1.0 / 100K	510	500
WP08S0116-00	QPCR0603-560 __	56	1.0 / 100K	720	460
WP08S0117-00	QPCR0603-680 __	68	1.0 / 100K	820	420

Electrical Characteristics / QPCR0704

System Number	Part Number	Inductance (μ H)	Test Condition (Volt / Hz)	DC Resistance Max. (m Ω)	Rated Current Max. (mA)
WP08S0207-00	QPCR0704-100 __	10	1.0 / 100K	70	1,650
WP08S0208-00	QPCR0704-120 __	12	1.0 / 100K	70	1,570
WP08S0209-00	QPCR0704-150 __	15	1.0 / 100K	80	1,390
WP08S0210-00	QPCR0704-180 __	18	1.0 / 100K	100	1,290
WP08S0211-00	QPCR0704-220 __	22	1.0 / 100K	130	1,120
WP08S0212-00	QPCR0704-270 __	27	1.0 / 100K	160	1,060
WP08S0213-00	QPCR0704-330 __	33	1.0 / 100K	180	970
WP08S0214-00	QPCR0704-390 __	39	1.0 / 100K	180	910
WP08S0215-00	QPCR0704-470 __	47	1.0 / 100K	270	800
WP08S0216-00	QPCR0704-560 __	56	1.0 / 100K	290	760
WP08S0217-00	QPCR0704-680 __	68	1.0 / 100K	330	680
WP08S0218-00	QPCR0704-820 __	82	1.0 / 100K	430	620
WP08S0219-00	QPCR0704-101 __	100	1.0 / 100K	490	550
WP08S0220-00	QPCR0704-121 __	120	1.0 / 100K	680	490
WP08S0221-00	QPCR0704-151 __	150	1.0 / 100K	940	440
WP08S0222-00	QPCR0704-181 __	180	1.0 / 100K	1,000	400
WP08S0223-00	QPCR0704-221 __	220	1.0 / 100K	1,180	360
WP08S0224-00	QPCR0704-271 __	270	1.0 / 100K	1,300	330

※ Rated current that will cause initial inductance value approximately 20% rolloff or temperature rise approximate 40°C without core loss. (Ta=25±5°C)

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■ Electrical Characteristics / QPCR1005

System Number	Part Number	Inductance (μ H)	Test Condition (Volt / Hz)	DC Resistance Max. (m Ω)	Rated Current Max. (mA)
WP08S0307-00	QPCR1005-100 __	10	1.0 / 100K	60	2,060
WP08S0308-00	QPCR1005-120 __	12	1.0 / 100K	70	1,940
WP08S0309-00	QPCR1005-150 __	15	1.0 / 100K	70	1,720
WP08S0310-00	QPCR1005-180 __	18	1.0 / 100K	80	1,580
WP08S0311-00	QPCR1005-220 __	22	1.0 / 100K	80	1,420
WP08S0312-00	QPCR1005-270 __	27	1.0 / 100K	100	1,320
WP08S0313-00	QPCR1005-330 __	33	1.0 / 100K	110	1,160
WP08S0314-00	QPCR1005-390 __	39	1.0 / 100K	120	1,100
WP08S0315-00	QPCR1005-470 __	47	1.0 / 100K	140	1,000
WP08S0316-00	QPCR1005-560 __	56	1.0 / 100K	190	930
WP08S0317-00	QPCR1005-680 __	68	1.0 / 100K	210	850
WP08S0318-00	QPCR1005-820 __	82	1.0 / 100K	280	790
WP08S0319-00	QPCR1005-101 __	100	1.0 / 100K	340	720
WP08S0320-00	QPCR1005-121 __	120	1.0 / 100K	370	630
WP08S0321-00	QPCR1005-151 __	150	1.0 / 100K	510	550
WP08S0322-00	QPCR1005-181 __	180	1.0 / 100K	570	500
WP08S0323-00	QPCR1005-221 __	220	1.0 / 100K	780	470
WP08S0324-00	QPCR1005-271 __	270	1.0 / 100K	870	410
WP08S0325-00	QPCR1005-331 __	330	1.0 / 100K	1,200	370
WP08S0326-00	QPCR1005-391 __	390	1.0 / 100K	1,340	350
WP08S0327-00	QPCR1005-471 __	470	1.0 / 100K	1,500	330

※ Rated current that will cause initial inductance value approximately 20% rolloff or temperature rise approximate 40°C without core loss. (Ta=25±5°C)

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Electrical Characteristics / QPCR1205

System Number	Part Number	Inductance (μ H)	Test Condition (Volt / Hz)	DC Resistance Max. (m Ω)	Rated Current Max. (mA)
WP08S0407-00	QPCR1205-100 __	10	1.0 / 100K	50	2,650
WP08S0408-00	QPCR1205-120 __	12	1.0 / 100K	50	2,500
WP08S0409-00	QPCR1205-150 __	15	1.0 / 100K	60	2,450
WP08S0410-00	QPCR1205-180 __	18	1.0 / 100K	60	2,400
WP08S0411-00	QPCR1205-220 __	22	1.0 / 100K	70	2,200
WP08S0412-00	QPCR1205-270 __	27	1.0 / 100K	80	2,000
WP08S0413-00	QPCR1205-330 __	33	1.0 / 100K	100	1,800
WP08S0414-00	QPCR1205-390 __	39	1.0 / 100K	110	1,650
WP08S0415-00	QPCR1205-470 __	47	1.0 / 100K	120	1,500
WP08S0416-00	QPCR1205-560 __	56	1.0 / 100K	150	1,380
WP08S0417-00	QPCR1205-680 __	68	1.0 / 100K	170	1,260
WP08S0418-00	QPCR1205-820 __	82	1.0 / 100K	200	1,140
WP08S0419-00	QPCR1205-101 __	100	1.0 / 100K	250	1,050
WP08S0420-00	QPCR1205-121 __	120	1.0 / 100K	280	950
WP08S0421-00	QPCR1205-151 __	150	1.0 / 100K	400	850
WP08S0422-00	QPCR1205-181 __	180	1.0 / 100K	480	770
WP08S0423-00	QPCR1205-221 __	220	1.0 / 100K	520	700
WP08S0424-00	QPCR1205-271 __	270	1.0 / 100K	700	630
WP08S0425-00	QPCR1205-331 __	330	1.0 / 100K	800	570
WP08S0426-00	QPCR1205-391 __	390	1.0 / 100K	1,080	520
WP08S0427-00	QPCR1205-471 __	470	1.0 / 100K	1,200	480
WP08S0428-00	QPCR1205-561 __	560	1.0 / 100K	1,340	440
WP08S0429-00	QPCR1205-681 __	680	1.0 / 100K	1,780	400
WP08S0430-00	QPCR1205-821 __	820	1.0 / 100K	2,000	360

※ Rated current that will cause initial inductance value approximately 20% rolloff or temperature rise approximate 40°C without core loss. (Ta=25±5°C)