



# RL-7700-3HQ RL-7700-4HQ

## HIGH Q CERAMIC WIREWOUND CHIP INDUCTORS



### FEATURES

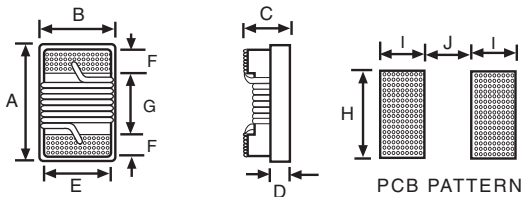
- Ceramic core wire wound construction.
- No batch to batch variations in inductance.
- High reliability due to ceramic wirewound construction.

### APPLICATIONS

Widely used in the communication applications such as cellular phones, pagers and other high frequency electronics devices.

### SPECIFICATIONS

Operating Temperature range: -40°C to +125°C  
Storage Temperature: -40°C to +125°C



### PART NUMBER IDENTIFICATION

RL-7700 -3 HQ 5N6 K  
(1) (2) (3) (4) (5)

- (1) SERIES NAME
- (2) DIMENSIONS
- (3) TYPE CODE: HQ - High Q Factor
- (4) INDUCTANCE CODE
- (5) TOLERANCE CODE  
G -  $\pm 2\%$  J -  $\pm 5\%$   
K -  $\pm 10\%$

### PRECAUTIONS

- After mounting components onto printed circuit board, be careful not to bend or mishandle the board.
- When hand soldering, apply solder iron to the printed circuit board only. Temperature of the iron tip should not exceed 260°C with soldering time < 3 seconds.
- Reflow soldering condition:  
230°C for 10s max.

### TAPE AND REEL PACKAGING

Part Number	Pieces per reel	Plastic reel size
RL-7700-3HQ	2,000	7"
RL-7700-4HQ	2,000	7"

### MECHANICAL DIMENSIONS (mm)

Part Number	A Max.	B Max.	C Max.	D Ref.	E Max.	F Max.	G Max.	H Max.	I Max.	J Max.
RL-7700-3HQ	2.29	1.73	1.52	0.51	1.27	0.44	1.02	1.78	1.02	0.76
RL-7700-4HQ	2.92	2.79	2.03	0.65	2.03	0.51	1.52	2.54	1.02	1.27



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Part Number	Tolerance Available	L (nH)	Test Freq. (MHz)	Q Min.	Q TEST Freq. (MHz)	SRF Min. (MHz)	DCR Max. ( $\Omega$ )	IDC Max. (mA)
RL-7700-3HQ-2N5	K,J	2.5	250	80	1500	6000	0.020	1600
RL-7700-3HQ-5N6	K,J	5.6	250	98	1500	6000	0.035	1600
RL-7700-3HQ-6N2	K,J	6.2	250	88	1000	4750	0.035	1600
RL-7700-3HQ-12N	K,J	12.0	250	80	1000	3000	0.045	1600
RL-7700-3HQ-16N	K,J,G	16.0	250	72	500	2950	0.060	1500
RL-7700-3HQ-18N	K,J,G	18.0	250	75	500	2550	0.060	1400
RL-7700-3HQ-20N	K,J,G	20.0	250	70	500	2050	0.055	1400
RL-7700-3HQ-27N	K,J,G	27.0	250	75	500	2000	0.070	1300
RL-7700-3HQ-30N	K,J,G	30.0	250	65	500	1950	0.095	1200
RL-7700-3HQ-39N	K,J,G	39.0	250	65	500	1600	0.110	1100
RL-7700-3HQ-48N	K,J,G	48.0	250	65	500	1400	0.095	1200
RL-7700-3HQ-51N	K,J,G	51.0	250	65	500	1400	0.120	1000

Test Equipment: Agilent / HP 4287 + Agilent / HP 8753D or HP 4291A



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Part Number	Tolerance Available	L (nH)	Test Freq. (MHz)	Q Min.	Q TEST Freq. (MHz)	SRF Min. (MHz)	DCR Max. ( $\Omega$ )	IDC Max. (mA)
RL-7700-4HQ-3N0	K,J	3.0	50	70	1500	6000	0.040	1600
RL-7700-4HQ-4N1	K,J	4.1	50	75	1500	6000	0.050	1600
RL-7700-4HQ-7N8	K,J	7.8	50	75	500	3800	0.050	1600
RL-7700-4HQ-10N	K,J,G	10.0	50	60	500	3600	0.060	1600
RL-7700-4HQ-12N	K,J,G	12.0	50	70	500	2800	0.060	1500
RL-7700-4HQ-18N	K,J	18.0	50	62	350	2700	0.070	1400
RL-7700-4HQ-22N	K,J,G	22.0	50	62	350	2050	0.070	1400
RL-7700-4HQ-33N	K,J,G	33.0	50	75	350	1700	0.090	1300
RL-7700-4HQ-39N	K,J,G	39.0	50	75	350	1300	0.090	1300
RL-7700-4HQ-47N	K,J,G	47.0	50	75	350	1450	0.120	1200
RL-7700-4HQ-56N	K,J,G	56.0	50	75	350	1230	0.120	1200
RL-7700-4HQ-68N	K,J,G	68.0	50	80	350	1150	0.130	1100
RL-7700-4HQ-82N	K,J,G	82.0	50	80	350	1060	0.160	1100
RL-7700-4HQ-R10	K,J,G	100.0	50	62	350	820	0.160	1000

Test Equipment: Agilent / HP 4287 + Agilent / HP 8753D or HP 4291A



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