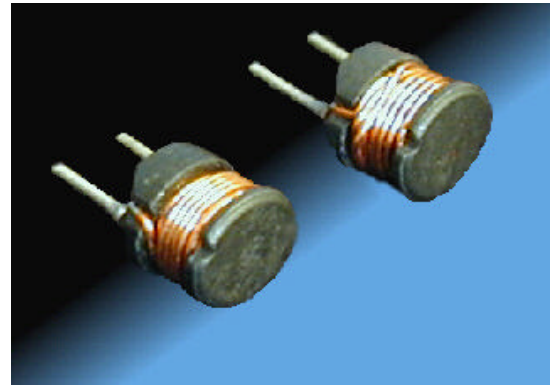


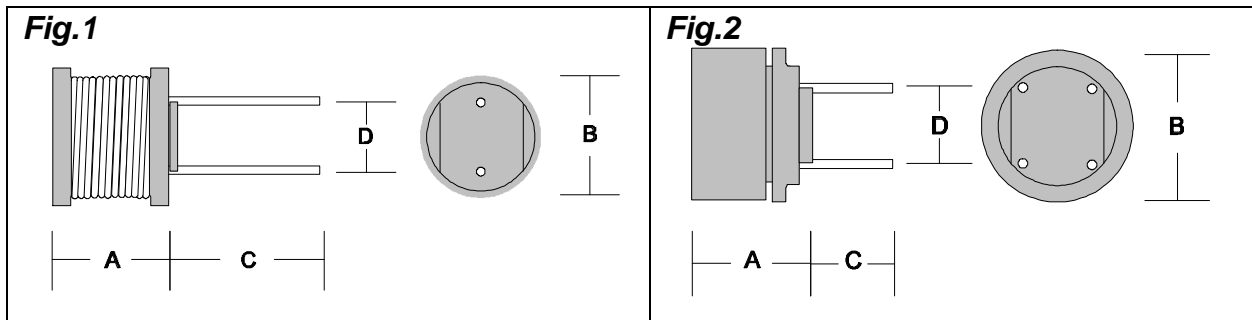
## RCH/R Series

- 7 Standard Core Options
- High Quality Construction
- Wide Inductance Range
- Hard Wire Terminations
- UL Sleeve Option for RCH Type
- Typical Pack Size 5000pcs



This range of high quality radial coils is available in 7 standard package options, both shielded and unshielded each with their own individual benefits. The RCH654 (shown above) is only 5 mm high and as such is one of the lowest profile of our radial type inductors. As with the PK types all of this range offers excellent *I<sub>sat</sub>* characteristics for their given size along with an incredibly wide inductance range. Suitable applications include power supplies for VTR, OA equipment, LCD display, and DC/DC converters.

### COMPONENT OUTLINE

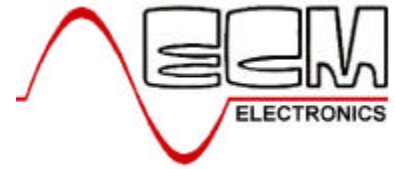


(1 = RCH Type, 2 = RCR Type)

### DIMENSIONS (mm)

ECM Type	Inductance Range	Outline (Fig.)	A (mm)	B	C	D	Pin Dia.
RCH-654	22uH~1.0mH	1	5.0	6.0	4.0	4.0	0.5
RCH-664	22uH~1.0mH	1	6.5	6.0	4.0	4.0	0.5
RCH-855	10uH~10mH	1	5.5	7.8	5.0	5.0	0.7
RCH-875	10uH~10mH	1	7.5	7.8	5.0	5.0	0.7
RCH-895	10uH~47mH	1	9.5	7.8	5.0	5.0	0.7
RCR-108D	10uH~1.0mH	2	8.0	10.0	3.5	5.0	0.7
RCR-110D	10uH~1.0mH	2	10.0	10.0	3.5	5.0	0.7

# ECM Radial Leaded Inductors



## RCH654 – RCH664 – RCH855 – RCH875 – RCH895

L (uH)	dcR (W) Max.					Nominal Rated dc Current (A)				
	RCH654	RCH664	RCH855	RCH875	RCH895	RCH654	RCH664	RCH855	RCH875	RCH895
10			0.07	0.05	0.04			2.50	2.90	2.60
12			0.08	0.06	0.04			2.40	2.50	2.60
15			0.09	0.07	0.05			2.10	2.20	2.10
18			0.10	0.08	0.05			2.00	1.90	2.00
22	0.18	0.11	0.12	0.09	0.06	0.90	1.27	1.70	1.80	1.70
27	0.21	0.14	0.14	0.11	0.06	0.81	1.14	1.60	1.70	1.60
33	0.27	0.17	0.17	0.13	0.07	0.74	1.03	1.40	1.50	1.40
39	0.29	0.19	0.21	0.14	0.08	0.68	0.95	1.30	1.35	1.40
47	0.34	0.23	0.24	0.15	0.10	0.62	0.87	1.20	1.30	1.30
56	0.42	0.26	0.31	0.18	0.11	0.57	0.80	1.10	1.20	1.20
68	0.48	0.28	0.34	0.20	0.14	0.51	0.72	1.00	1.10	1.10
82	0.55	0.39	0.40	0.24	0.16	0.47	0.66	0.93	1.00	1.00
100	0.68	0.43	0.52	0.28	0.19	0.42	0.59	0.81	0.89	0.90
120	0.77	0.54	0.59	0.36	0.22	0.39	0.54	0.76	0.81	0.82
150	0.95	0.64	0.71	0.42	0.27	0.35	0.48	0.67	0.72	0.74
180	1.15	0.74	0.89	0.57	0.31	0.32	0.44	0.62	0.66	0.71
220	1.30	0.96	1.04	0.63	0.38	0.29	0.40	0.54	0.57	0.64
270	1.55	1.12	1.28	0.88	0.53	0.26	0.36	0.49	0.51	0.57
330	2.18	1.48	1.47	1.05	0.61	0.23	0.33	0.44	0.46	0.51
390	2.47	1.66	1.67	1.17	0.69	0.21	0.30	0.41	0.44	0.48
470	2.92	1.91	1.95	1.34	0.89	0.20	0.27	0.38	0.41	0.43
560	3.97	2.31	2.83	1.72	1.01	0.18	0.25	0.35	0.36	0.40
680	4.57	2.67	3.25	1.96	1.18	0.16	0.23	0.32	0.33	0.35
820	5.28	3.10	3.82	2.56	1.57	0.15	0.21	0.31	0.30	0.32
1000	7.06	4.45	5.28	2.94	1.84	0.13	0.19	0.25	0.27	0.30
1200			6.03	4.04	2.10			0.32	0.24	0.27
1500			7.15	4.70	2.80			0.21	0.22	0.23
1800			8.26	5.05	3.21			0.20	0.20	0.21
2200			11.10	6.25	4.21			0.18	0.18	0.19
2700			13.10	8.72	4.94			0.16	0.16	0.17
3300			15.90	10.60	6.16			0.14	0.15	0.15
3900			18.00	14.20	6.84			0.13	0.14	0.14
4700			23.90	16.70	7.89			0.12	0.12	0.13
5600			26.80	18.70	11.50			0.11	0.11	0.12
6800			31.70	21.80	13.20			0.10	0.10	0.11
8200			46.50	28.70	15.20			0.09	0.09	0.10
10000			55.70	33.00	22.00			0.08	0.08	0.09
12000					25.00					0.08
15000					29.10					0.07
18000					38.90					0.07
22000					44.90					0.06
27000					55.70					0.05
33000					64.20					0.05
39000					74.20					0.04
47000					96.40					0.04
56000										
68000										
82000										
100000										

**TOLERANCES M= 20% (10uH~18uH); K= 10% (22uH~47.0mH).**

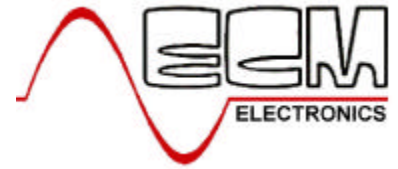
**Test Frequency = 2.52MHz (10uH~82uH)**

**1.0kHz (100uH~47.0mH)**

ECM Electronics Limited, Penmaen House, Ashington, West Sussex, RH20 3JR, UK  
 Tel: +44(0)1903 892810: Fax: +44(0)1903 892738. Email: ecm@ecmelectronics.co.uk

Although we have attempted to accurately reflect the products we market. ECM reserve the right without prior notice to discontinue any product or make design changes we believe necessary.

# ECM Radial Leaded Inductors



## RCR-108D – RCR110D

L (uH)	dcR (W) Max.		Nominal Rated dc Current (A)	
	RCR108D	RCR110D	RCR108D	RCR110D
10	0.05	0.02	2.80	3.90
12	0.06	0.02	2.50	3.60
15	0.07	0.03	2.30	3.20
18	0.08	0.03	2.10	2.90
22	0.09	0.04	2.00	2.60
27	0.10	0.05	1.76	2.40
33	0.11	0.06	1.60	2.10
39	0.12	0.07	1.38	2.00
47	0.14	0.10	1.28	1.80
56	0.15	0.11	1.20	1.60
68	0.16	0.15	1.00	1.50
82	0.18	0.16	0.96	1.40
100	0.20	0.19	0.92	1.20
120	0.24	0.21	0.80	1.10
150	0.35	0.23	0.73	1.00
180	0.40	0.26	0.64	0.92
220	0.54	0.29	0.61	0.83
270	0.76	0.36	0.56	0.75
330	0.86	0.51	0.50	0.68
390	0.93	0.69	0.44	0.62
470	1.23	0.98	0.41	0.57
560	1.34	1.10	0.38	0.52
680	1.53	1.20	0.34	0.47
820	2.10	1.30	0.32	0.43
1000	2.30	1.50	0.28	0.39

**TOLERANCES M= 20% (10uH~47uH); L= 15% (56uH~1.0mH).**  
**Test Frequency = 2.52MHz (10uH~82uH)**  
**1.0kHz (100uH~1.0mH)**