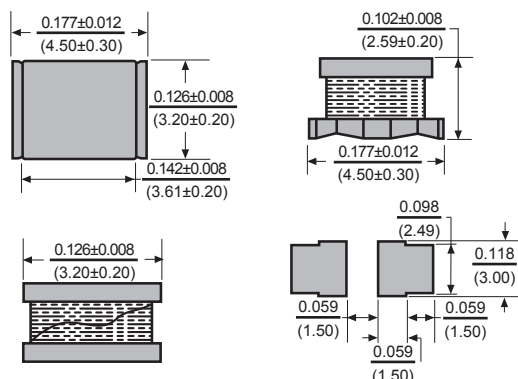
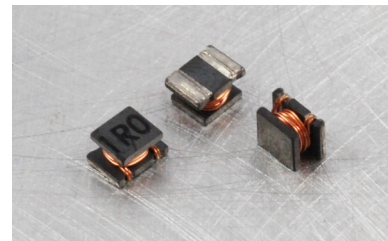


# LRC30 Low Resistance Chip Inductors



Dimensions:  $\frac{\text{Inches}}{\text{(mm)}}$



## Features

- Miniature SMT wire-wound open magnetic path construction inductors with low DCR, high current capacity and high impedance characteristics.
- Excellent solder heat resistance for flow and reflow soldering methods.
- Excellent for use as choke coils in DC/DC converter and DC power supply circuits.

## Electrical

**Inductance Range:** 1.0 $\mu$ h to 470 $\mu$ h

**Tolerance:** For 20% use M, 10% use K and 5% use J as part number suffix.

**Test Frequency:** Inductance measured at 1MHz for all values. Except 560 $\mu$ h thru 1500 $\mu$ h, which are tested at 1 KHz.

**Operating Temp. Range:** -25° to +85

**Rated Current:** Based on Temperature rise not to exceed 35°C. Inductance Drop 10% typical.

**Resistance to Soldering Heat:** Pre heat: 150°C ± 10°C / 1-2 min. Solder temp: 260°C ± 5°C for 10 sec. ± 1 sec.

## Physical

**Packaging:** 500 pieces per 7 inch reel.  
2500 pieces per 13 inch reel.

Allied Part Number	Inductance ( $\mu$ h)	Tolerance (%)	Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. ( $\Omega$ )	Rated Current (mA)
LRC30-1R0M-RC	1.0	20	1	100	0.08	1080
LRC30-1R5M-RC	1.5	20	1	85	0.09	1000
LRC30-2R2M-RC	2.2	20	1	60	0.11	900
LRC30-3R3M-RC	3.3	20	1	47	0.13	800
LRC30-4R7M-RC	4.7	20	1	35	0.15	750
LRC30-6R8M-RC	6.8	20	1	30	0.20	720
LRC30-100K-RC	10	10	1	23	0.24	650
LRC30-150K-RC	15	10	1	20	0.32	570
LRC30-220K-RC	22	10	1	15	0.60	420
LRC30-330K-RC	33	10	1	12	1.00	310
LRC30-470K-RC	47	10	1	10	1.10	280
LRC30-680K-RC	68	10	1	8.4	1.70	220
LRC30-101K-RC	100	10	1	6.8	2.20	190
LRC30-151K-RC	150	10	1	5.5	3.50	130
LRC30-221K-RC	220	10	1	4.5	4.00	110
LRC30-331K-RC	330	10	1	3.6	6.80	100
LRC30-471K-RC	470	10	1	3.0	8.50	90
LRC30-561K-RC	560	10	.001	2.5	10.4	80
LRC30-681K-RC	680	10	.001	2.2	14.7	70
LRC30-102K-RC	1000	10	.001	2.0	27.9	50
LRC30-152K-RC	1500	10	.001	1.8	35.0	40

Available in tighter tolerances.  
All specifications subject to change without notice.