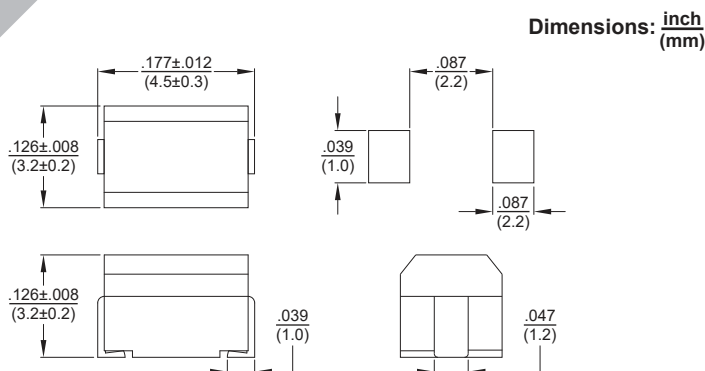




## Molded Chip Inductor High Current

MCHC30



Allied Part Number	Inductance (μH)	Tolerance (%)	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	IDC (mA)
MCHC30-1R0K-RC	1.0	10	10	7.96	180	0.11	1050
MCHC30-1R2K-RC	1.2	10	10	7.96	160	0.12	1000
MCHC30-1R5K-RC	1.5	10	10	7.96	130	0.15	950
MCHC30-1R8K-RC	1.8	10	10	7.96	100	0.16	900
MCHC30-2R2K-RC	2.2	10	10	7.96	80	0.18	850
MCHC30-2R7K-RC	2.7	10	10	7.96	60	0.20	800
MCHC30-3R3K-RC	3.3	10	10	7.96	45	0.22	750
MCHC30-3R9K-RC	3.9	10	10	7.96	40	0.24	700
MCHC30-4R7K-RC	4.7	10	10	7.96	35	0.27	650
MCHC30-5R6K-RC	5.6	10	10	7.96	30	0.30	650
MCHC30-6R8K-RC	6.8	10	10	7.96	28	0.35	600
MCHC30-8R2K-RC	8.2	10	10	7.96	25	0.40	600
MCHC30-100K-RC	10	10	10	2.52	22	0.50	550
MCHC30-120K-RC	12	10	10	2.52	21	0.60	500
MCHC30-150K-RC	15	10	10	2.52	20	0.70	450
MCHC30-180K-RC	18	10	10	2.52	19	0.80	400
MCHC30-220K-RC	22	10	10	2.52	18	0.90	370
MCHC30-270K-RC	27	10	10	2.52	16	1.20	330
MCHC30-330K-RC	33	10	10	2.52	14	1.40	300
MCHC30-390K-RC	39	10	10	2.52	12	1.60	280
MCHC30-470K-RC	47	10	10	2.52	11.5	1.90	260
MCHC30-560K-RC	56	10	10	2.52	11	2.20	240
MCHC30-680K-RC	68	10	10	2.52	10	2.60	220
MCHC30-820K-RC	82	10	10	2.52	9.0	3.50	200
MCHC30-101K-RC	100	10	20	.796	8.0	4.00	180
MCHC30-121K-RC	120	10	20	.796	7.5	4.50	160
MCHC30-151K-RC	150	10	20	.796	7.0	6.50	140
MCHC30-181K-RC	180	10	20	.796	6.5	7.50	120
MCHC30-221K-RC	220	10	20	.796	5.5	9.00	120
MCHC30-271K-RC	270	10	20	.796	5.0	11.0	100
MCHC30-331K-RC	330	10	20	.796	4.0	13.0	90
MCHC30-391K-RC	390	10	20	.796	3.0	14.0	85
MCHC30-471K-RC	470	10	20	.796	3.0	16.0	75
MCHC30-561K-RC	560	10	20	.796	3.0	21.0	70
MCHC30-681K-RC	680	10	20	.796	2.5	24.0	65

All specifications subject to change without notice.

### Features

- 1812 High Current Molded Chip Inductor
- Excellent Solder Heat Resistance
- Welded internal lead frame to coil wire connection

### Electrical

**Inductance Range:** 1.0μH ~ 680μH

**Tolerance:** Available in 5%, 10%, and 20%

**Test Frequency:** 7.96MHz (1.0μH~8.2μH)

.796MHz (100μH~680μH)

**Operating Temp:** -25°C to +105°C (including self-temperature rise)

**IDC:** Inductance drop 10% from its value with current approximately 30%

**L/Q:** Test OCS @ 0.10mv

### Resistance to Soldering Heat

**Pre-heating:** 150°C, 1min

**Solder Composition:** Sn/Ag3.0/Cu0.5

**Solder Temperature:** 245 ± 5°C

**Immersion Time:** 4 ± 1sec

### Test Equipment

**L & Q:** Agilent HP4291A/Agilent HP4285A + Agilent HP16197A

**SRF:** Agilent HP 4291A

**DCR:** HP4338B or Chen Hwa 502

**SRF:** HP4291A Impedance Analyzer

### Physical

**Packaging:** 500 pieces, 7" reel

Marking: EIA inductance code