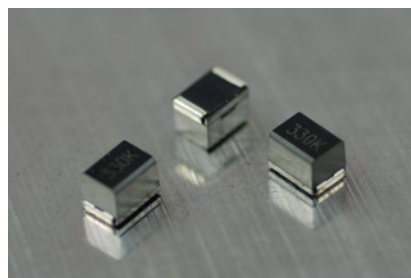
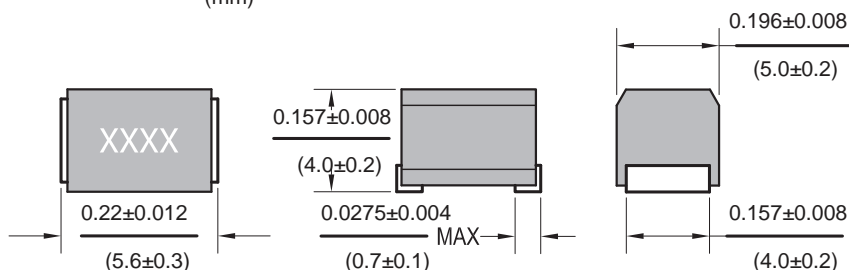


MCHC40 Molded Chip Inductor High Current



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



Features

- 2220 High Current Molded Chip Inductor
- High Resistance to Mechanical Shock
- Precision Molding for Auto Insertion
- Excellent Solder Heat Resistance
- Welded internal lead frame to coil wire connection

Electrical

Inductance Range: 1.0 μ H ~ 10,000 μ H

Tolerance: 10% over entire range
also available in 5%

Test Frequency: 1.0 μ H ~ 8.2 μ H @ 7.96MHz,
10 μ H ~ 82 μ H @ 2.52MHz, 100 μ H~820 μ H @
.796MHz, 1000 μ H~8200 μ H @ .252MHz,
10,000 μ H @ .079MHz

Operating Temp: -40°C ~ +125°C @ 75% RH

IDC: The current at which inductance will drop no more than 10% of it's initial value.

Resistance to Soldering Heat

Pre-heating: 150°C, 1min

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

Solder Temperature: 260 \pm 5°C

Immersion Time: 4 \pm 1sec

Physical

Packaging: 1000 pieces, 13" reel
Marking: EIA inductance code

Allied Part Number	Inductance (μ H)	Tolerance (%)	Q Min.	L,Q Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	IDC (mA)
MCHC40-1R0K-RC	1.0	10	10	7.96	95	0.030	1800
MCHC40-1R2K-RC	1.2	10	10	7.96	70	0.035	1700
MCHC40-1R5K-RC	1.5	10	10	7.96	55	0.04	1600
MCHC40-1R8K-RC	1.8	10	10	7.96	47	0.05	1400
MCHC40-2R2K-RC	2.2	10	10	7.96	42	0.06	1300
MCHC40-2R7K-RC	2.7	10	10	7.96	37	0.07	1200
MCHC40-3R3K-RC	3.3	10	10	7.96	34	0.08	1120
MCHC40-3R9K-RC	3.9	10	10	7.96	32	0.09	1050
MCHC40-4R7K-RC	4.7	10	10	7.96	29	0.11	950
MCHC40-5R6K-RC	5.6	10	10	7.96	26	0.13	880
MCHC40-6R8K-RC	6.8	10	10	7.96	24	0.15	810
MCHC40-8R2K-RC	8.2	10	10	7.96	22	0.18	750
MCHC40-100K-RC	10	10	10	2.52	19	0.21	690
MCHC40-120K-RC	12	10	10	2.52	17	0.25	630
MCHC40-150K-RC	15	10	10	2.52	16	0.30	580
MCHC40-180K-RC	18	10	10	2.52	14	0.36	530
MCHC40-220K-RC	22	10	10	2.52	13	0.43	480
MCHC40-270K-RC	27	10	10	2.52	11.5	0.52	440
MCHC40-330K-RC	33	10	10	2.52	10.5	0.62	400
MCHC40-390K-RC	39	10	10	2.52	9.5	0.72	370
MCHC40-470K-RC	47	10	10	2.52	8.5	0.85	340
MCHC40-560K-RC	56	10	10	2.52	7.8	1.0	310
MCHC40-680K-RC	68	10	10	2.52	7.0	1.2	290
MCHC40-820K-RC	82	10	10	2.52	6.4	1.4	270
MCHC40-101K-RC	100	10	20	0.796	6.0	1.6	250
MCHC40-121K-RC	120	10	20	0.796	5.4	1.9	230
MCHC40-151K-RC	150	10	20	0.796	4.8	2.2	210
MCHC40-181K-RC	180	10	20	0.796	4.4	2.8	190
MCHC40-221K-RC	220	10	20	0.796	3.9	3.4	170
MCHC40-271K-RC	270	10	20	0.796	3.6	4.2	155
MCHC40-331K-RC	330	10	20	0.796	3.2	4.9	140
MCHC40-391K-RC	390	10	20	0.796	2.9	5.8	130
MCHC40-471K-RC	470	10	20	0.796	2.6	7.0	120
MCHC40-561K-RC	560	10	20	0.796	2.4	8.5	110
MCHC40-681K-RC	680	10	20	0.796	2.2	10	100
MCHC40-821K-RC	820	10	20	0.796	2.0	13	90
MCHC40-102K-RC	1000	10	20	0.252	1.8	15	85
MCHC40-122K-RC	1200	10	20	0.252	1.5	17	75
MCHC40-152K-RC	1500	10	20	0.252	1.4	20	70
MCHC40-182K-RC	1800	10	20	0.252	1.3	30	60
MCHC40-222K-RC	2200	10	20	0.252	1.2	35	55
MCHC40-272K-RC	2700	10	20	0.252	1.1	55	45
MCHC40-332K-RC	3300	10	20	0.252	1.0	60	40
MCHC40-392K-RC	3900	10	20	0.252	1.0	70	38
MCHC40-472K-RC	4700	10	20	0.252	0.9	78	36
MCHC40-562K-RC	5600	10	20	0.252	0.8	85	33
MCHC40-682K-RC	6800	10	20	0.252	0.7	110	30
MCHC40-822K-RC	8200	10	20	0.252	0.6	125	28
MCHC40-103K-RC	10000	10	20	0.0796	0.5	150	25

All specifications subject to change without notice.