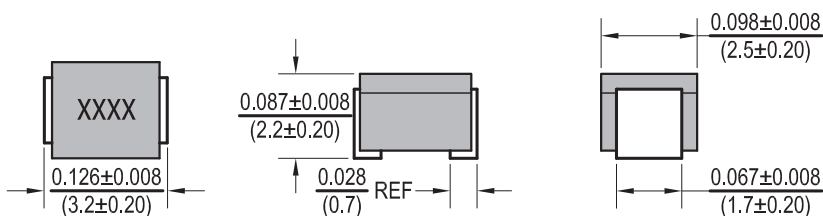
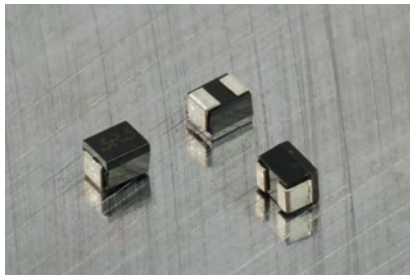




Molded Chip Inductors MC20A

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



Allied Part Number	Inductance (μh)	Tolerance (%)	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	IDC (mA)
MC20A-R012M-RC	.010	20	15	100	2500	0.13	450
MC20A-R012M-RC	.012	20	17	100	2300	0.14	450
MC20A-R015M-RC	.015	20	19	100	2100	0.16	450
MC20A-R018M-RC	.018	20	21	100	1900	0.18	450
MC20A-R022M-RC	.022	20	23	100	1700	0.20	450
MC20A-R027M-RC	.027	20	23	100	1500	0.22	450
MC20A-R033M-RC	.033	20	25	100	1400	0.24	450
MC20A-R039M-RC	.039	20	25	100	1300	0.27	450
MC20A-R047M-RC	.047	20	26	100	1200	0.30	450
MC20A-R056M-RC	.056	20	26	100	1100	0.33	450
MC20A-R068M-RC	.068	20	27	100	1000	0.36	450
MC20A-R082M-RC	.082	20	27	100	900	0.40	450
MC20A-R10M-RC	.10	20	28	100	700	0.44	450
MC20A-R12M-RC	.12	20	30	25.2	500	0.22	450
MC20A-R15M-RC	.15	20	30	25.2	450	0.25	450
MC20A-R18M-RC	.18	20	30	25.2	400	0.28	450
MC20A-R22M-RC	.22	20	30	25.2	350	0.32	450
MC20A-R27M-RC	.27	20	30	25.2	320	0.36	450
MC20A-R33M-RC	.33	20	30	25.2	300	0.40	450
MC20A-R39M-RC	.39	20	30	25.2	250	0.45	450
MC20A-R47M-RC	.47	20	30	25.2	220	0.50	450
MC20A-R56M-RC	.56	20	30	25.2	180	0.55	450
MC20A-R68M-RC	.68	20	30	25.2	160	0.60	450
MC20A-R82M-RC	.82	20	30	25.2	140	0.65	450

Additional values continued on page 2

Available in tighter tolerances.

All specifications subject to change without notice.

Features

- 1210 Molded Chip Inductor
- Excellent Solder Heat Resistance
- Welded internal lead frame to coil wire connection

Electrical

Inductance Range: .01μh ~ 470μh

Tolerance: 10% over entire range
Also available in 5% & 20%

Test Frequency:

.01μh ~ .1μh measured at 100Mhz,
.12μh ~ .82μh measured at 25.2Mhz,
1μh ~ 8.2μh measured at 7.96Mhz,
10μh ~ 82μh measured at 2.52Mhz,
100μh ~ 470μh measured at .796Mhz,

Operating Temp: -25°C ~ +85°C @ 75% RH

IDC: The current at which inductance will drop no more than 10% of it's original value at 1Mhz, 1v.

L/Q: Test OCS @ 200mv

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): .01μh~82μh HP4287A + HP16034E

(L/Q): 100μh~470μh HP4292A + HP16034E

(RDC): Chen Hwa 502

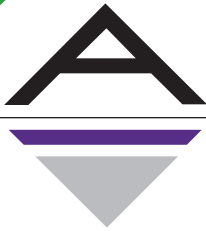
(IDC): HP4284A + HP42841A/WK3260B

(SRF): HP4291A

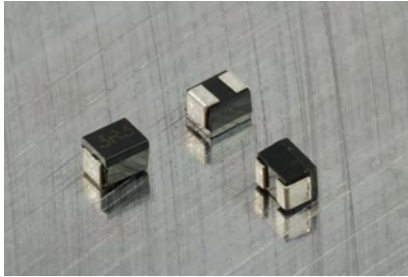
Physical

Packaging: 2000 pieces per 7 inch reel.

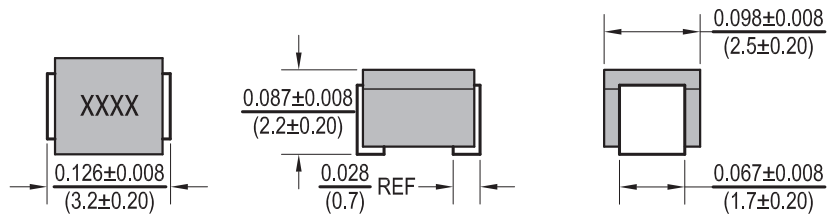
Marking: EIA Inductance Code.



Molded Chip Inductors MC20A



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



Allied Part Number	Inductance (μh)	Tolerance (%)	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	IDC (mA)
MC20A-1R0M-RC	1	20	30	7.96	120	0.70	400
MC20A-1R2M-RC	1.2	20	30	7.96	100	0.75	390
MC20A-1R5M-RC	1.5	20	30	7.96	85	0.85	370
MC20A-1R8M-RC	1.8	20	30	7.96	80	0.90	350
MC20A-2R2M-RC	2.2	20	30	7.96	75	1.00	320
MC20A-2R7M-RC	2.7	20	30	7.96	70	1.10	290
MC20A-3R3M-RC	3.3	20	30	7.96	60	1.20	260
MC20A-3R9M-RC	3.9	20	30	7.96	55	1.30	250
MC20A-4R7M-RC	4.7	20	30	7.96	50	1.50	220
MC20A-5R6M-RC	5.6	20	30	7.96	45	1.60	200
MC20A-6R8M-RC	6.8	20	30	7.96	40	1.80	180
MC20A-8R2M-RC	8.2	20	30	7.96	35	2.00	170
MC20A-100M-RC	10	20	30	2.52	30	2.10	150
MC20A-120M-RC	12	20	30	2.52	20	2.50	140
MC20A-150M-RC	15	20	30	2.52	20	2.80	130
MC20A-180M-RC	18	20	30	2.52	20	3.30	120
MC20A-220M-RC	22	20	30	2.52	20	3.70	100
MC20A-270M-RC	27	20	30	2.52	20	5.00	80
MC20A-330M-RC	33	20	30	2.52	17	5.60	70
MC20A-390M-RC	39	20	30	2.52	16	6.40	65
MC20A-470M-RC	47	20	30	2.52	15	7.00	60
MC20A-560M-RC	56	20	30	2.52	13	8.00	55
MC20A-680M-RC	68	20	30	2.52	12	9.00	50
MC20A-820M-RC	82	20	30	2.52	11	10.0	45
MC20A-101M-RC	100	20	20	7.96	10	10.0	40
MC20A-121M-RC	120	20	20	7.96	10	11.0	70
MC20A-151M-RC	150	20	20	7.96	8	15.0	65
MC20A-181M-RC	180	20	20	7.96	7	17.0	60
MC20A-221M-RC	220	20	20	7.96	7	21.0	50
MC20A-271M-RC	270	20	20	7.96	6	28.0	45
MC20A-331M-RC	330	20	20	7.96	5	34.0	40
MC20A-391M-RC	390	20	20	7.96	5	42.0	35
MC20A-471M-RC	470	20	20	7.96	4	40.0	25

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(SRF): HP4291A

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