

CONFORMAL COATED INDUCTORS

These Conformal Coated Inductors are compact, cost effective, and are excellent for auto insertion.

FEATURES

- High Q
- Low distributed capacity.
- Small size, fits in high density applications.
- Same electrical parameters as MS75083, MS75084, MS75085.
- Cut and Formed leads available upon request.

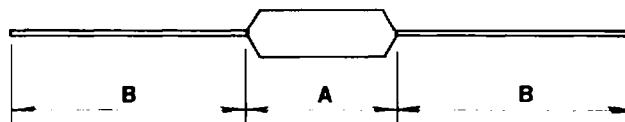
ELECTRICAL CHARACTERISTICS

Inductance Range-	C1011	.10 uH to 220 uH
	C1021, C1031	.10 uH to 1000 uH
Tolerance-	C1011	20% for values from .10 uH to 2.7 uH. 10% for values from 3.3 uH to 220 uH.
	C1021, C1031	10% over entire range.
Rated current-	Based on coil temperature rise not to exceed 20 degrees C at 80 degrees C ambient temperature.	
Test procedures-	L and Q are measured with HP4342A Q meter at specified frequency. SRF is measured with Grid Dip meter. DCR is measured with Digital Milliohm meter.	

PHYSICAL CHARACTERISTICS

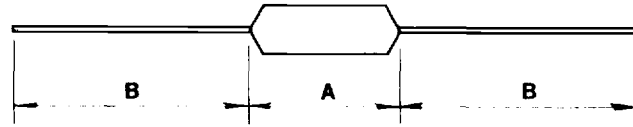
Dielectric strength-	500 volts RMS
Operating temperature-	Minus 20 degrees C to plus 105 degrees C
Terminal strength-	5 lbs pull test per MIL-STD-202E, method 211A.
Solvent resistivity-	Conforms to MIL-STD-202E, method 215.
Marking (on part)-	C1011 3 bands EIA color code. C1021, C1031 4 bands EIA color code.
Marking (on reel)-	Manufactures name, Part number, Quantity.
Packaging-	Bulk 1,000 pieces per bag. Reel 5,000 pieces per reel.

Type	Body Length (A)	Lead Length (B)	Body Diameter	Lead Diameter
C1011	.177 max.	1.05 nominal	.11 max.	0.02
C1021	.315 max.	1.05 nominal	.12 max.	0.02
C1031	.394 max.	1.05 nominal	.157 max.	0.025



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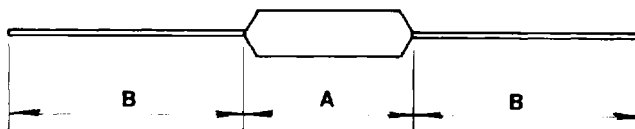
C1011 SERIES



Part #	L (uH)	Q min.	Test Freq. MHZ	SRF MHZ min.	DCR Ohms max.
C1011-R10M	0.10 +- 20%	40	25.2	250	0.12
C1011-R12M	0.12 +- 20%	40	25.2	230	0.14
C1011-R15M	0.15 +- 20%	40	25.2	210	0.16
C1011-R18M	0.18 +- 20%	40	25.2	190	0.18
C1011-R22M	0.22 +- 20%	40	25.2	175	0.2
C1011-R27M	0.27 +- 20%	40	25.2	160	0.22
C1011-R33M	0.33 +- 20%	50	25.2	150	0.24
C1011-R39M	0.39 +- 20%	50	25.2	150	0.27
C1011-R47M	0.47 +- 20%	50	25.2	150	0.3
C1011-R56M	0.56 +- 20%	50	25.2	150	0.34
C1011-R68M	0.68 +- 20%	40	25.2	120	0.38
C1011-R82M	0.82 +- 20%	40	25.2	120	0.43
C1011-1R0M	1.00 +- 20%	30	7.96	120	0.46
C1011-1R2M	1.20 +- 20%	30	7.96	100	0.52
C1011-1R5M	1.50 +- 20%	30	7.96	80	0.57
C1011-1R8M	1.80 +- 20%	30	7.96	66	0.6
C1011-2R2M	2.20 +- 20%	30	7.96	60	0.65
C1011-2R7M	2.70 +- 20%	40	7.96	54	0.73
C1011-3R3K	3.30 +- 10%	40	7.96	36	0.82
C1011-3R9K	3.90 +- 10%	40	7.96	32	0.9
C1011-4R7K	4.70 +- 10%	40	7.96	30	1
C1011-5R6K	5.60 +- 10%	40	7.96	28	1.1
C1011-6R8K	6.80 +- 10%	40	7.96	27	1.2
C1011-8R2K	8.20 +- 10%	40	7.96	26	1.3
C1011-100K	10.0 +- 10%	40	2.52	24	1.4
C1011-120K	12.0 +- 10%	40	2.52	22	1.5
C1011-150K	15.0 +- 10%	50	2.52	19	2.3
C1011-180K	18.0 +- 10%	50	2.52	18	2.4
C1011-220K	22.0 +- 10%	50	2.52	17	2.9
C1011-270K	27.0 +- 10%	50	2.52	15	3
C1011-330K	33.0 +- 10%	50	2.52	14	4.8
C1011-390K	39.0 +- 10%	50	2.52	12	5.3
C1011-470K	47.0 +- 10%	50	2.52	11	5.8
C1011-560K	56.0 +- 10%	50	2.52	10	7.4
C1011-680K	68.0 +- 10%	50	2.52	9.5	8.25
C1011-820K	82.0 +- 10%	50	2.52	9	9.5
C1011-101K	100 +- 10%	50	0.796	7	14.5
C1011-121K	120 +- 10%	30	0.796	6.5	16
C1011-151K	150 +- 10%	30	0.796	5.5	18.5
C1011-181K	180 +- 10%	30	0.796	5.2	20
C1011-221K	220 +- 10%	60	0.796	4.7	22

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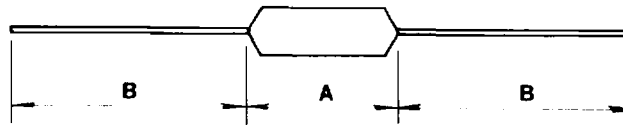
C1021 SERIES



Part #	L (uH)	Q min.	Test Freq. MHZ	SRF MHZ min.	DCR Ohms max.	DCC (mA) max.
C1021-R10K	0.10 +- 10%	40	25.2	470	0.08	700
C1021-R12K	0.12 +- 10%	40	25.2	450	0.08	700
C1021-R15K	0.15 +- 10%	40	25.2	430	0.09	700
C1021-R18K	0.18 +- 10%	40	25.2	410	0.1	700
C1021-R22K	0.22 +- 10%	40	25.2	380	0.12	700
C1021-R27K	0.27 +- 10%	40	25.2	360	0.15	680
C1021-R33K	0.33 +- 10%	40	25.2	350	0.16	680
C1021-R39K	0.39 +- 10%	40	25.2	320	0.18	680
C1021-R47K	0.47 +- 10%	40	25.2	300	0.26	650
C1021-R56K	0.56 +- 10%	40	25.2	280	0.38	500
C1021-R68K	0.68 +- 10%	40	25.2	250	0.42	500
C1021-R82K	0.82 +- 10%	40	25.2	200	0.55	450
C1021-1R0K	1.00 +- 10%	40	25.2	180	0.12	700
C1021-1R2K	1.20 +- 10%	40	7.96	165	0.18	700
C1021-1R5K	1.50 +- 10%	45	7.96	150	0.2	700
C1021-1R8K	1.80 +- 10%	50	7.96	125	0.23	655
C1021-2R2K	2.20 +- 10%	50	7.96	85	0.25	630
C1021-2R7K	2.70 +- 10%	50	7.96	80	0.28	595
C1021-3R3K	3.30 +- 10%	50	7.96	75	0.3	575
C1021-3R9K	3.90 +- 10%	45	7.96	65	0.32	555
C1021-4R7K	4.70 +- 10%	45	7.96	45	0.35	530
C1021-5R6K	5.60 +- 10%	45	7.96	36	0.4	500
C1021-6R8K	6.80 +- 10%	40	7.96	30	0.45	470
C1021-8R2K	8.20 +- 10%	40	7.96	28	0.55	425
C1021-100K	10.0 +- 10%	40	7.96	22	0.72	370
C1021-120K	12.0 +- 10%	45	2.52	20	0.8	350
C1021-150K	15.0 +- 10%	50	2.52	16	0.88	335
C1021-180K	18.0 +- 10%	50	2.52	15	1	315
C1021-220K	22.0 +- 10%	50	2.52	13	1.2	285
C1021-270K	27.0 +- 10%	50	2.52	11	1.35	270
C1021-330K	33.0 +- 10%	50	2.52	10	1.5	255
C1021-390K	39.0 +- 10%	50	2.52	9.5	1.7	240
C1021-470K	47.0 +- 10%	60	2.52	8.5	2.3	205
C1021-560K	56.0 +- 10%	60	2.52	7.5	2.6	195
C1021-680K	68.0 +- 10%	60	2.52	6.5	3.2	185
C1021-820K	82.0 +- 10%	60	2.52	6	3.5	175
C1021-101K	100 +- 10%	60	2.52	5.5	3.8	165
C1021-121K	120 +- 10%	60	0.796	5.4	4	160
C1021-151K	150 +- 10%	60	0.796	4.75	4.4	150
C1021-181K	180 +- 10%	60	0.796	4.35	5	140
C1021-221K	220 +- 10%	60	0.796	4	5.7	130
C1021-271K	270 +- 10%	60	0.796	3.7	6.5	120
C1021-331K	330 +- 10%	60	0.796	3.4	9.5	100
C1021-391K	390 +- 10%	60	0.796	2.8	10.5	95
C1021-471K	470 +- 10%	60	0.796	2.4	12.5	90
C1021-561K	560 +- 10%	60	0.796	2.2	14.5	85
C1021-681K	680 +- 10%	60	0.796	2	18	75
C1021-821K	820 +- 10%	60	0.796	1.6	23.7	65
C1021-102K	1000 +- 10%	60	0.796	1.15	30	60

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C1031 SERIES



Part #	L (uH)	Q min.	Test Freq.MHZ	SRF MHZ min.	DCR Ohms max.	DCC (mA) max.
C1031-R10K	0.10 +- 10%	50	25.2	470	0.04	900
C1031-R12K	0.12 +- 10%	50	25.2	450	0.06	900
C1031-R15K	0.15 +- 10%	50	25.2	430	0.07	890
C1031-R18K	0.18 +- 10%	50	25.2	410	0.07	890
C1031-R22K	0.22 +- 10%	50	25.2	380	0.08	880
C1031-R27K	0.27 +- 10%	50	25.2	340	0.09	800
C1031-R33K	0.33 +- 10%	50	25.2	300	0.1	750
C1031-R39K	0.39 +- 10%	50	25.2	280	0.12	680
C1031-R47K	0.47 +- 10%	50	25.2	250	0.16	650
C1031-R56K	0.56 +- 10%	50	25.2	230	0.18	600
C1031-R68K	0.68 +- 10%	50	25.2	210	0.22	550
C1031-R82K	0.82 +- 10%	50	25.2	172	0.24	980
C1031-1R0K	1.00 +- 10%	50	25.2	157	0.09	920
C1031-1R2K	1.20 +- 10%	50	7.96	144	0.1	880
C1031-1R5K	1.50 +- 10%	50	7.96	131	0.23	830
C1031-1R8K	1.80 +- 10%	55	7.96	121	0.25	790
C1031-2R2K	2.20 +- 10%	55	7.96	110	0.28	750
C1031-2R7K	2.70 +- 10%	60	7.96	100	0.3	720
C1031-3R3K	3.30 +- 10%	65	7.96	94	0.34	670
C1031-3R9K	3.90 +- 10%	65	7.96	86	0.37	640
C1031-4R7K	4.70 +- 10%	70	7.96	80	0.39	620
C1031-5R6K	5.60 +- 10%	70	7.96	74	0.43	590
C1031-6R8K	6.80 +- 10%	75	7.96	58	0.48	550
C1031-8R2K	8.20 +- 10%	80	7.96	53	0.52	530
C1031-100K	10.0 +- 10%	85	7.96	45	0.58	500
C1031-120K	12.0 +- 10%	75	2.52	30	0.63	480
C1031-150K	15.0 +- 10%	70	2.52	20	0.72	460
C1031-180K	18.0 +- 10%	65	2.52	14	0.77	430
C1031-220K	22.0 +- 10%	40	2.52	9.9	0.84	410
C1031-270K	27.0 +- 10%	55	2.52	7.6	0.94	390
C1031-330K	33.0 +- 10%	55	2.52	6.3	1.03	370
C1031-390K	39.0 +- 10%	50	2.52	6.3	1.12	350
C1031-470K	47.0 +- 10%	45	2.52	6.3	1.22	340
C1031-560K	56.0 +- 10%	40	2.52	6.2	1.34	320
C1031-680K	68.0 +- 10%	40	2.52	5.7	1.47	305
C1031-820K	82.0 +- 10%	35	2.52	5.3	1.62	290
C1031-101K	100 +- 10%	30	2.52	4.8	1.8	275
C1031-121K	120 +- 10%	70	0.796	3.8	3.7	185
C1031-151K	150 +- 10%	70	0.796	3.5	4.2	175
C1031-181K	180 +- 10%	70	0.796	3.3	4.6	165
C1031-221K	220 +- 10%	70	0.796	3	5.1	155
C1031-271K	270 +- 10%	65	0.796	2.8	5.8	145
C1031-331K	330 +- 10%	65	0.796	2.6	6.4	137
C1031-391K	390 +- 10%	65	0.796	2.4	7	133
C1031-471K	470 +- 10%	60	0.796	2.25	7.7	126
C1031-561K	560 +- 10%	60	0.796	2.1	8.5	120
C1031-681K	680 +- 10%	55	0.796	1.95	9.4	113
C1031-821K	820 +- 10%	55	0.796	1.85	12	100
C1031-102K	1000 +- 10%	50	0.252	1.4	17.4	100