

AXIAL MOLDED INDUCTORS

These Molded Inductors provide high reliability, size uniformity, and are ideal for auto insertion.

FEATURES

- Stable construction.
- Precision performance.
- Meets all requirements of MIL-C-15305.

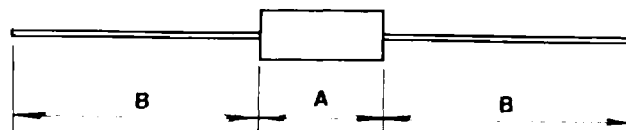
ELECTRICAL CHARACTERISTICS

Inductance Range-	.10 uH to 1000 uH	
Tolerance-	M2021	10% over entire range.
	M2041	20% for values from .15 uH to .47 uH. 10% for values from .56 uH to 33 uH. 5% for values from 36 uH to 1000 uH.
Rated current-	Based on coil temperature rise not to exceed 35 degrees C at 90 degree 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.	

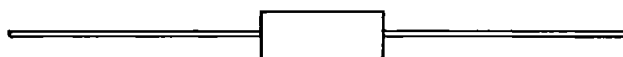
PHYSICAL CHARACTERISTICS

Dielectric strength-	1000 volts RMS at sea level.	
Operating temperature-	.10 uH to 1.0 uH Minus 55 degrees C to plus 125 degrees C. 1.2 uH to 1000 uH Minus 55 degree C to plus 105 degree C.	
Terminal strength	5 lbs pull test per MIL-STD-202E, method 211A.	
Marking (on part)-	5 band color code per MIL-C-15305.	
Marking (on reel)-	Manufactures name, Part number, Quantity.	
Packaging-	Bulk	M2021 1,000 pieces per bag. M2041 500 pieces per bag.
	Reel	M2021 5,000 pieces per reel. M2041 2,500 pieces per reel.

Type	Body Length (A)	Lead Length (B)	Body Diameter	Lead Diameter
M2021	.250 +/- .01	1.05 nominal	.095 +/- .01	24 AWG
M2041	.375 +/- .01	1.05 nominal	.156 +/- .01	22 AWG



MOLDED INDUCTORS
M2021 SERIES



Part #	L (uH)	Q min.	Test Freq. MHZ	SRF MHZ min.	DCR Ohms max.	DCC (mA) max.
M2021-R10K	0.10 +- 10%	40	25.2	680	0.08	1350
M2021-R12K	0.12 +- 10%	40	25.2	640	0.09	1270
M2021-R15K	0.15 +- 10%	38	25.2	600	0.1	1200
M2021-R18K	0.18 +- 10%	35	25.2	550	0.12	1105
M2021-R22K	0.22 +- 10%	33	25.2	510	0.14	1025
M2021-R27K	0.27 +- 10%	33	25.2	430	0.16	960
M2021-R33K	0.33 +- 10%	30	25.2	410	0.22	815
M2021-R39K	0.39 +- 10%	30	25.2	365	0.3	700
M2021-R47K	0.47 +- 10%	30	25.2	330	0.35	650
M2021-R56K	0.56 +- 10%	30	25.2	300	0.5	545
M2021-R68K	0.68 +- 10%	28	25.2	275	0.6	495
M2021-R82K	0.82 +- 10%	28	25.2	250	0.85	415
M2021-1R0K	1.00 +- 10%	25	25.2	230	1	385
M2021-1R2K	1.20 +- 10%	25	7.96	150	0.18	590
M2021-1R5K	1.50 +- 10%	28	7.96	140	0.22	535
M2021-1R8K	1.80 +- 10%	30	7.96	125	0.3	455
M2021-2R2K	2.20 +- 10%	30	7.96	115	0.4	395
M2021-2R7K	2.70 +- 10%	37	7.96	100	0.55	355
M2021-3R3K	3.30 +- 10%	45	7.96	90	0.85	270
M2021-3R9K	3.90 +- 10%	45	7.96	80	1	250
M2021-4R7K	4.70 +- 10%	45	7.96	75	1.2	230
M2021-5R6K	5.60 +- 10%	50	7.96	65	1.8	185
M2021-6R8K	6.80 +- 10%	50	7.96	60	2	175
M2021-8R2K	8.20 +- 10%	55	7.96	55	2.7	155
M2021-100K	10.0 +- 10%	55	7.96	50	3.7	130
M2021-120K	12.0 +- 10%	45	2.52	40	2.7	155
M2021-150K	15.0 +- 10%	40	2.52	35	2.8	150
M2021-180K	18.0 +- 10%	50	2.52	30	3.1	145
M2021-220K	22.0 +- 10%	50	2.52	25	3.3	140
M2021-270K	27.0 +- 10%	50	2.52	20	3.5	135
M2021-330K	33.0 +- 10%	45	2.52	24	3.4	130
M2021-390K	39.0 +- 10%	45	2.52	22	3.6	125
M2021-470K	47.0 +- 10%	45	2.52	20	4.5	110
M2021-560K	56.0 +- 10%	45	2.52	18	5.7	100
M2021-680K	68.0 +- 10%	50	2.52	15	6.7	92
M2021-820K	82.0 +- 10%	50	2.52	14	7.3	88
M2021-101K	100 +- 10%	50	2.52	13	8	84
M2021-121K	120 +- 10%	30	0.796	12	13	66
M2021-151K	150 +- 10%	30	0.796	11	15	61
M2021-181K	180 +- 10%	30	0.796	10	17	57
M2021-221K	220 +- 10%	30	0.796	9	21	52
M2021-271K	270 +- 10%	30	0.796	8	25	47
M2021-331K	330 +- 10%	30	0.796	7	28	45
M2021-391K	390 +- 10%	30	0.796	6.5	35	40
M2021-471K	470 +- 10%	30	0.796	6	42	36
M2021-561K	560 +- 10%	30	0.796	5	46	35
M2021-681K	680 +- 10%	30	0.796	4	60	30
M2021-821K	820 +- 10%	30	0.796	3.8	65	29
M2021-102K	1000 +- 10%	30	0.796	3.4	72	28

MOLDED INDUCTORS**M2041 SERIES**

Part #	L (uH)	Q min.	Test Freq. MHZ	SRF MHZ min.	DCR Ohms max.	DCC (mA) max.
M2041-R15K	0.15 + - 10%	50	25.2	525	0.03	2740
M2041-R22K	0.22 + - 10%	50	25.2	450	0.055	2020
M2041-R33K	0.33 + - 10%	45	25.2	360	0.09	1580
M2041-R47K	0.47 + - 10%	45	25.2	310	0.12	1370
M2041-R56K	0.56 + - 10%	50	25.2	280	0.135	1290
M2041-R68K	0.68 + - 10%	50	25.2	250	0.15	1220
M2041-R82K	0.82 + - 10%	50	25.2	220	0.22	1020
M2041-1R0K	1.00 + - 10%	50	25.2	200	0.29	880
M2041-1R2K	1.20 + - 10%	33	7.96	180	0.42	730
M2041-1R5K	1.50 + - 10%	33	7.96	160	0.5	670
M2041-1R8K	1.80 + - 10%	33	7.96	150	0.65	590
M2041-2R2K	2.20 + - 10%	33	7.96	135	0.95	485
M2041-2R7K	2.70 + - 10%	33	7.96	120	1.2	430
M2041-3R3K	3.30 + - 10%	33	7.96	110	2	335
M2041-3R9K	3.90 + - 10%	33	7.96	100	2.3	310
M2041-4R7K	4.70 + - 10%	33	7.96	90	2.6	294
M2041-5R6K	5.60 + - 10%	45	7.96	60	0.32	565
M2041-6R8K	6.80 + - 10%	50	7.96	55	0.5	450
M2041-8R2K	8.20 + - 10%	50	7.96	50	0.6	410
M2041-100K	10.0 + - 10%	55	7.96	45	0.9	335
M2041-120K	12.0 + - 10%	65	2.52	42	1.1	305
M2041-150K	15.0 + - 10%	65	2.52	40	1.4	271
M2041-180K	18.0 + - 10%	75	2.52	34	2.25	213
M2041-220K	22.0 + - 10%	75	2.52	30	2.5	202
M2041-240K	24.0 + - 10%	60	2.52	26	2.5	202
M2041-270K	27.0 + - 10%	60	2.52	25	2.6	198
M2041-300K	30.0 + - 10%	65	2.52	21	2.8	191
M2041-330K	33.0 + - 10%	65	2.52	19	3	185
M2041-360K	36.0 + - 10%	60	2.52	15.5	2.5	202
M2041-390J	39.0 + - 5%	60	2.52	14.5	2.6	198
M2041-430J	43.0 + - 5%	60	2.52	13.7	2.7	194
M2041-470J	47.0 + - 5%	55	2.52	13	2.8	193
M2041-510J	51.0 + - 5%	55	2.52	12.7	2.85	189
M2041-560J	56.0 + - 5%	55	2.52	12	3	184
M2041-620J	62.0 + - 5%	55	2.52	11.5	3.15	180
M2041-680J	68.0 + - 5%	55	2.52	11	3.3	176
M2041-750J	75.0 + - 5%	55	2.52	10.5	3.7	166
M2041-820J	82.0 + - 5%	50	2.52	10.3	3.9	162
M2041-910J	91.0 + - 5%	50	2.52	10	4.3	154
M2041-101J	100 + - 5%	50	2.52	9.5	4.5	151
M2041-111J	110 + - 5%	60	0.796	8.9	4.9	144
M2041-121J	120 + - 5%	65	0.796	8.7	5.2	140
M2041-131J	130 + - 5%	65	0.796	8.5	5.45	137
M2041-151J	150 + - 5%	65	0.796	8	6.05	130
M2041-161J	160 + - 5%	65	0.796	7.5	6.4	126
M2041-181J	180 + - 5%	65	0.796	8	6.05	130
M2041-201J	200 + - 5%	65	0.796	6.5	7.1	123
M2041-221J	220 + - 5%	65	0.796	6.2	7.45	117
M2041-241J	240 + - 5%	65	0.796	5.9	7.8	115
M2041-271J	270 + - 5%	65	0.796	5.7	11	143
M2041-301J	300 + - 5%	65	0.796	5.4	11.5	140
M2041-331J	330 + - 5%	65	0.796	5.1	12	136
M2041-361J	360 + - 5%	65	0.796	4.8	12.5	134
M2041-391J	390 + - 5%	65	0.796	4.5	16.3	117
M2041-431J	430 + - 5%	65	0.796	4.2	17.1	115
M2041-471J	470 + - 5%	65	0.796	3.9	17.9	112
M2041-511J	510 + - 5%	65	0.796	3.7	18.8	109
M2041-561J	560 + - 5%	65	0.796	3.8	19.5	107
M2041-621J	620 + - 5%	65	0.796	3.3	25.9	93
M2041-681J	680 + - 5%	65	0.796	3.1	27.2	91
M2041-751J	750 + - 5%	65	0.796	2.9	28.6	88
M2041-821J	820 + - 5%	65	0.796	2.7	30	86
M2041-911J	910 + - 5%	65	0.796	2.5	31.5	84
M2041-102J	1000 + - 5%	65	0.796	2.3	33	82