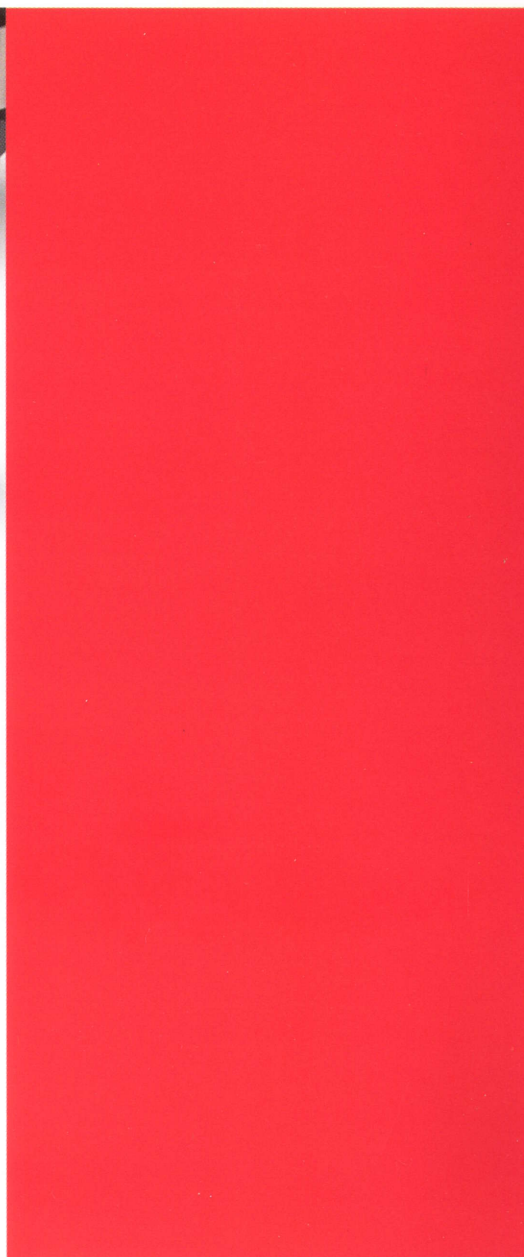


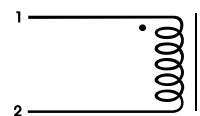


Features

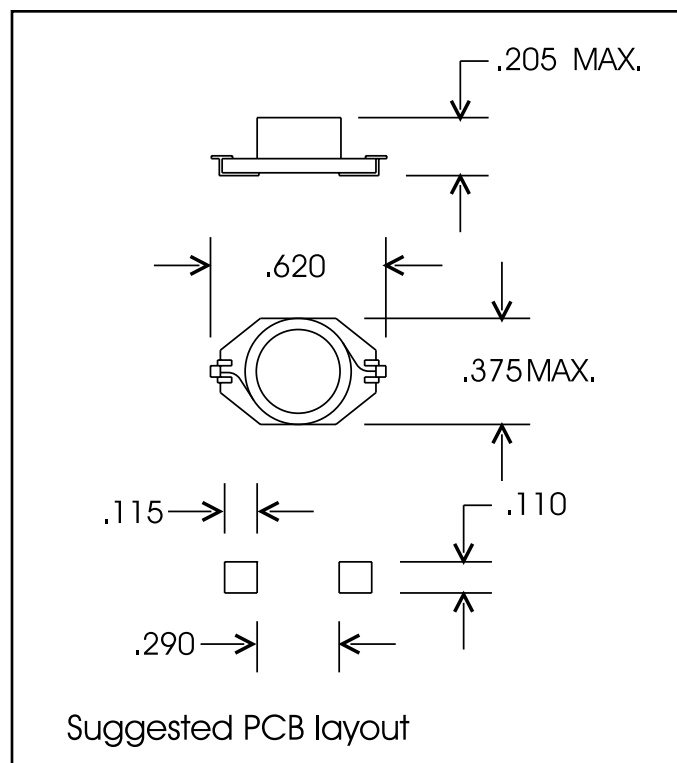
- Shielded inductor with minimum EMI
- Minimum power loss
- Non standard values available
- Low DC resistance
- Flat top for SMT operations

Specifications

- Inductance tested at 100KHz and zero DC Bias
- Operating temperature -40 C to +85 C
- 40 C temperature rise rated current



Manutech Part Number	L=μH ±20%	DCR Max	Rated Current I rms	Current 10% drop in L
MN509-1	1.0	0.021	5.0	5.6
MN509-1.5	1.5	0.022	4.5	5.2
MN509-2.2	2.2	0.032	3.8	5.0
MN509-3.3	3.3	0.039	3.3	3.9
MN509-4.7	4.7	0.054	2.7	3.2
MN509-6.8	6.8	0.075	2.2	2.8
MN509-10	10.0	0.101	2.0	2.4
MN509-15	15.0	0.150	1.5	2.0
MN509-22	22.0	0.207	1.3	1.6
MN509-33	33.0	0.334	1.1	1.4
MN509-47	47.0	0.472	0.8	1.0

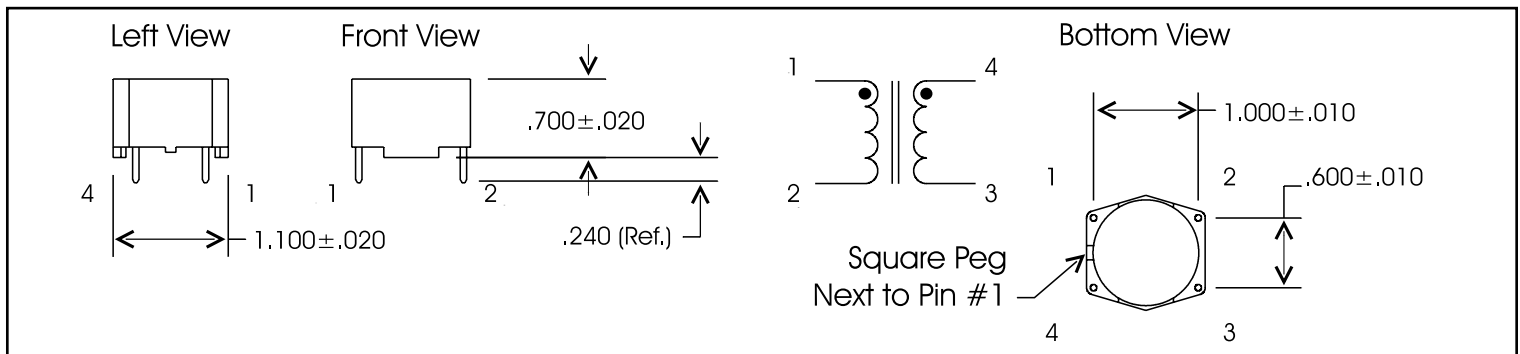


All dimensions are in inches.

All specifications are subject to change without notice • Can be customized to your specific application

Features

- Reduce EMI in line-power.
- Reduce in-phase noise signal.
- Reduce AC interference.
- Encapsulated cup for ease of PCB insertion.
- 65 μH @ 25 Amps to 17000 μH @1.1 Amp.



All dimensions are in inches.

Manutech Part Number	Inductance @ 10 kHz $\mu\text{H} \pm 35\%$	DCR Ω Max	Current Rating AC	Leakage Inductance μH Ref	Interwinding Capacitance pF Ref.
MN325-65	65	0.0013	25.0	0.620	16.85
MN325-100	100	0.0025	20.0	0.815	4.70
MN325-180	180	0.0040	16.0	1.200	6.50
MN325-470	470	0.0065	13.0	3.300	9.11
MN325-880	880	0.0085	10.0	5.500	12.80
MN325-1400	1,400	0.0145	7.0	8.600	13.70
MN325-1800	1,800	0.0220	5.0	10.500	15.30
MN325-3200	3,200	0.0650	3.0	20.400	16.80
MN325-4900	4,900	0.0800	2.5	27.200	20.20
MN325-6500	6,500	0.1600	2.0	32.800	22.80
MN325-9500	9,500	0.1800	1.5	45.600	27.00
MN325-15000	15,000	0.3400	1.3	70.000	29.90
MN325-17000	17,000	0.4500	1.1	75.000	32.10

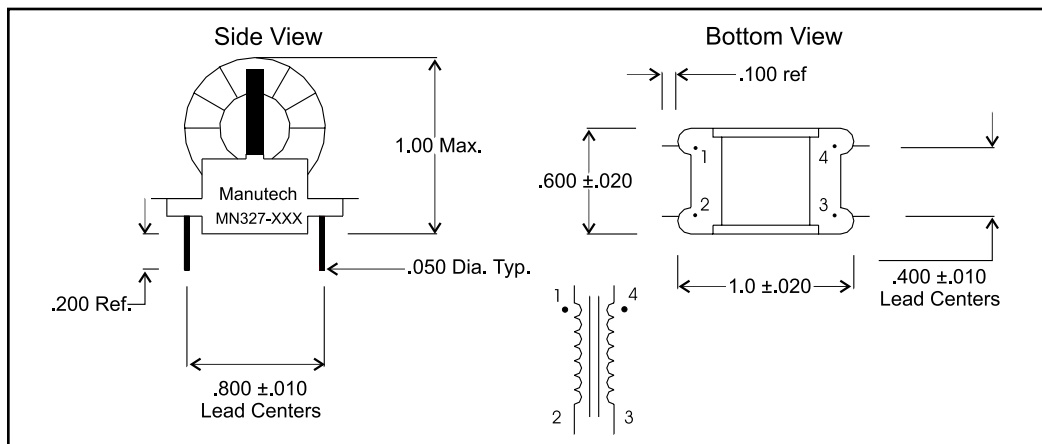
Note: Inductance and DCR specifications are for each winding (1 to 2, or 4 to 3).

All specifications are subject to change without notice • Can be customized to your specific application



Features

- 65 μH @ 25 Amps to 17000 μH @ 1.1 Amp.
- Reduce EMI in line-power.
- Reduce in-phase noise signal.
- Reduce AC interference.
- Small vertical footprint.



All dimensions are in inches.

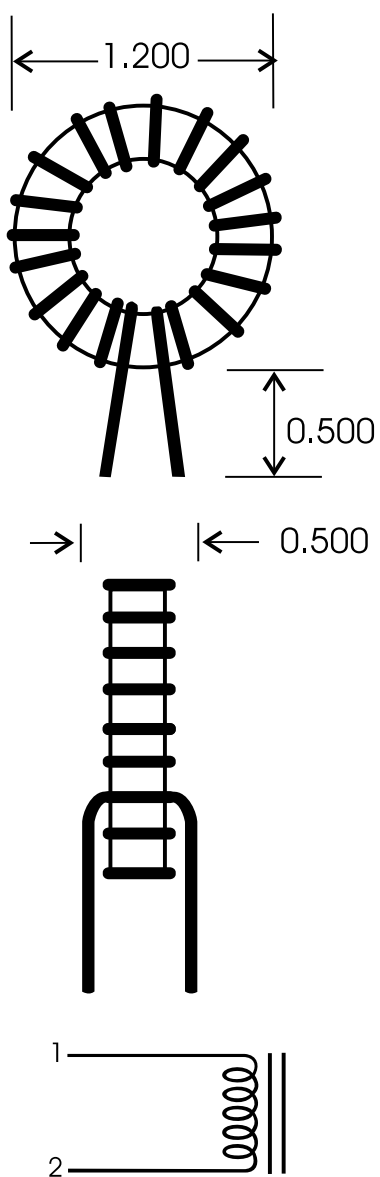
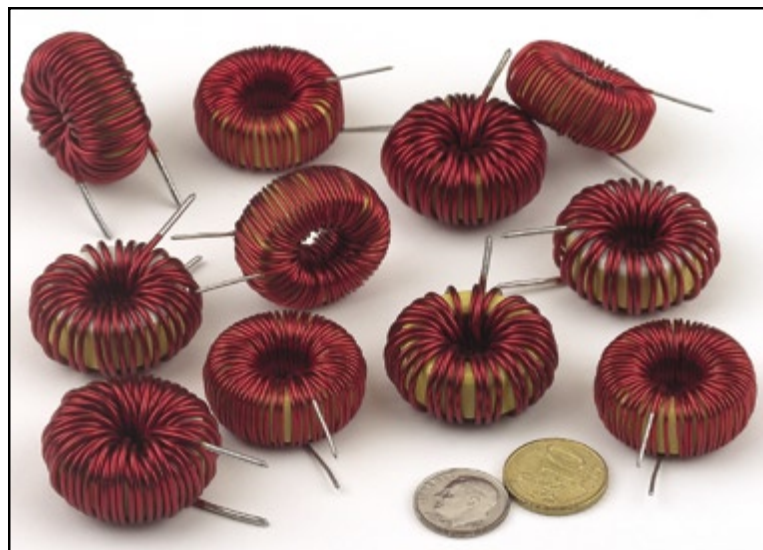
Manutech Part Number	Inductance @ 10 kHz $\mu\text{H} \pm 35\%$	DCR Ω Max	Current Rating Amps	Leakage Inductance μH Ref	Interwinding Capacitance pF Ref.
MN327-652	65	0.0013	25.0	0.620	16.85
MN327-103	100	0.0025	20.0	0.815	4.70
MN327-183	180	0.0040	16.0	1.200	6.50
MN327-473	470	0.0065	13.0	3.300	9.11
MN327-883	880	0.0085	10.0	5.500	12.80
MN327-144	1,400	0.0145	7.0	8.600	13.70
MN327-184	1,800	0.0220	5.0	10.500	15.30
MN327-324	3,200	0.0650	3.0	20.400	16.80
MN327-494	4,900	0.0800	2.5	27.200	20.20
MN327-654	6,500	0.1600	2.0	32.800	22.80
MN327-954	9,500	0.1800	1.5	45.600	27.00
MN327-155	15,000	0.3400	1.3	70.000	29.90
MN327-175	17,000	0.4500	1.1	75.000	32.10

Note: Inductance and DCR specifications are for each winding (1 to 2, or 4 to 3).

All specifications are subject to change without notice • Can be customized to your specific application

Features

- EMI/RFI filter applications.
- Heavy duty construction.
- Inductance changes in a known pattern with load current.
- Non standard values available.



All dimensions are in inches.

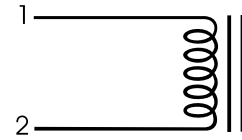
Manutech Part Number	Inductance @ 1 KHz L = μ H	DC Resistance Ohm	Rated Current Amps	Min. L at Rated Current
MN356-5	5	0.001	25	3
MN356-10	10	0.003	25	4
MN356-15	15	0.004	20	6
MN356-21	21	0.005	16	9
MN356-26	26	0.006	16	10
MN356-31	31	0.008	12	13
MN356-40	40	0.009	12	15
MN356-46	46	0.010	12	18
MN356-56	56	0.013	10	22
MN356-68	68	0.014	10	26
MN356-80	80	0.016	10	30
MN356-100	100	0.021	8	40
MN356-150	150	0.031	6	61
MN356-220	220	0.047	5	88
MN356-270	270	0.055	5	100
MN356-330	330	0.075	4	135
MN356-390	390	0.085	4	150
MN356-470	470	0.090	4	175
MN356-560	560	0.125	3	240
MN356-680	680	0.135	3	260

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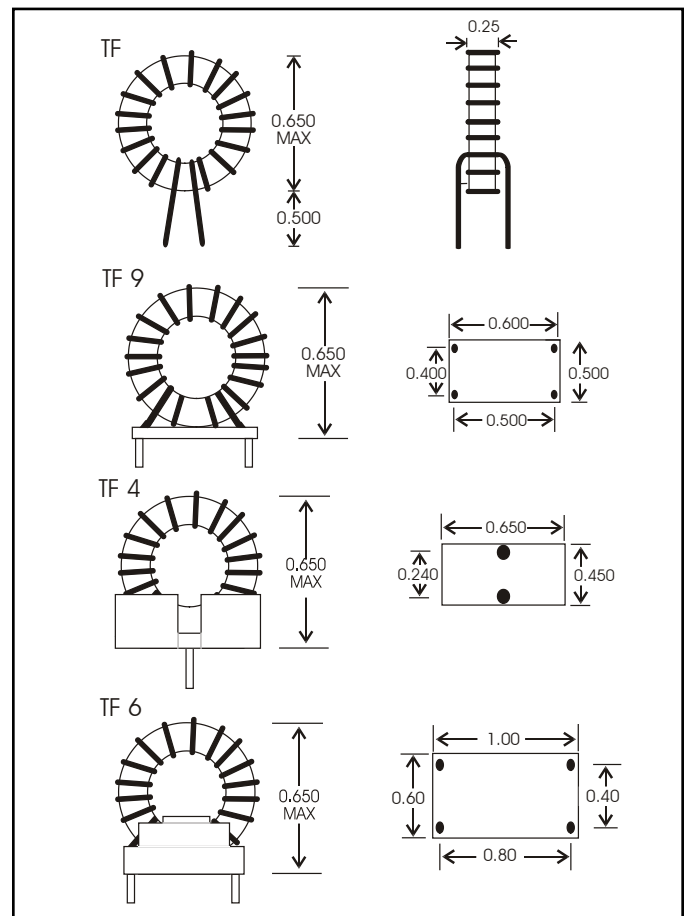


Features

- 10 μH @ 1.45 Amps to 680 MHz @ 0.17 Amp.
- Stable at high frequency.
- Non standard values available.
- Economy construction.
- PCB mountable.
- EMI/RFI suppression.
- Inductance tolerance $\pm 15\%$.



Manutech Part Number	Inductance @ 1 KHz L = μH	Max DC Current	Rated Current (Amps)
MN350-10	10	0.010	1.45
MN350-12	12	0.016	1.29
MN350-15	15	0.018	1.17
MN350-18	18	0.019	1.02
MN350-22	22	0.022	0.95
MN350-27	27	0.024	0.85
MN350-33	33	0.035	0.77
MN350-39	39	0.036	0.70
MN350-47	47	0.047	0.65
MN350-56	56	0.048	0.60
MN350-68	68	0.049	0.55
MN350-82	82	0.052	0.49
MN350-100	100	0.089	0.45
MN350-120	120	0.108	0.41
MN350-150	150	0.130	0.36
MN350-180	180	0.135	0.33
MN350-220	220	0.150	0.30
MN350-270	270	0.216	0.27
MN350-330	330	0.225	0.25
MN350-390	390	0.233	0.23
MN350-470	470	0.273	0.21
MN350-560	560	0.339	0.19
MN350-680	680	0.440	0.17



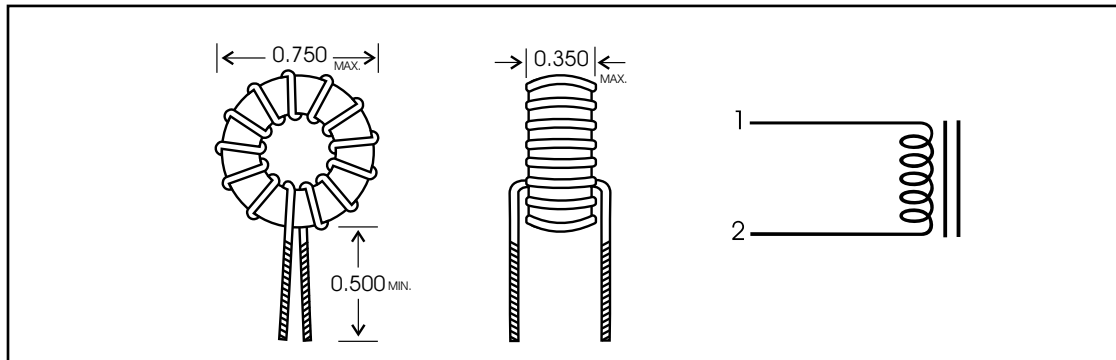
All dimensions are in inches.

Note: Inductance drops approximately 50% at rated current.

All specifications are subject to change without notice • Can be customized to your specific application

Features

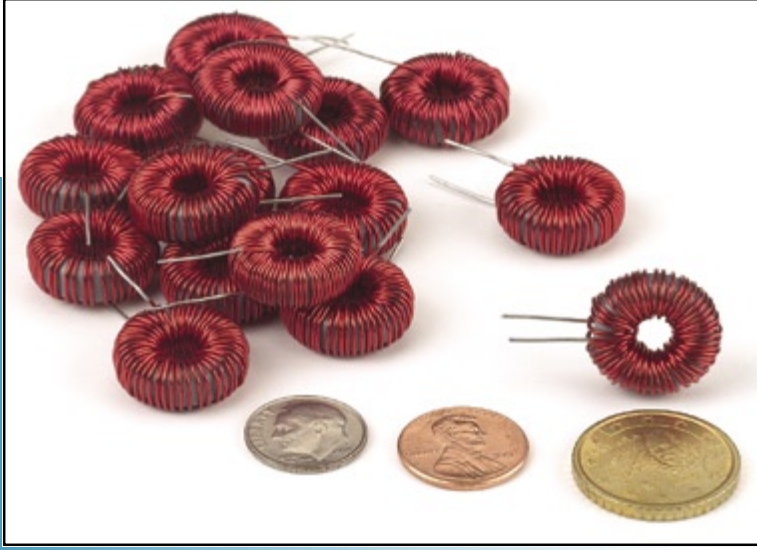
- Dissipates heat better than iron powder cores at high frequency.
- Performs efficiently at frequencies over 100 KHz.
- Choice of three headers.
- Non standard values available.
- Standard tolerance $\pm 15\%$.
- Other tolerances available.



All dimensions are in inches.

Manutech Part Number	Inductance L= μ H @ 1KHz	DCR Resistance Ohms	Current Capability Amp DC	5 Oersted L drop (5%) Saturation	9 Oersted L drop (10%) Saturation	16 Oersted L drop (20%) Saturation
MN363-10	10	0.049	4.00	0.5	0.7	0.9
MN363-22	22	0.076	3.00	0.3	0.5	0.6
MN363-26	26	0.076	3.00	0.3	0.4	0.6
MN363-30	30	0.120	2.50	0.3	0.4	0.5
MN363-33	33	0.190	2.00	0.3	0.4	0.5
MN363-56	56	0.297	1.70	0.2	0.3	0.4
MN363-68	68	0.464	1.40	0.2	0.2	0.3
MN363-100	100	0.728	1.00	0.2	0.2	0.3
MN363-160	160	1.133	0.70	0.1	0.2	0.2
MN363-220	220	1.792	0.60	0.1	0.1	0.2
MN363-270	270	2.830	0.50	0.1	0.1	0.2
MN363-330	330	4.410	0.42	0.1	0.1	0.2
MN363-390	390	6.790	0.35	0.1	0.1	0.1
MN363-470	470	10.740	0.25	0.1	0.1	0.1

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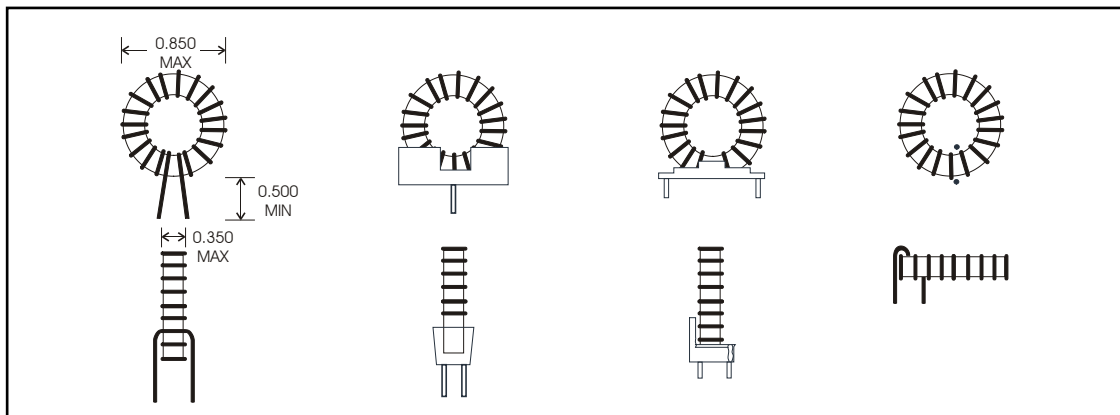


Features

- 15 μH @ 12 Amps to 610 μH @ 2.0 Amps.
- Most popular size.
- Economical construction.
- Various headers available.
- Non standard values available.
- Inductance swings in a known pattern.

Specifications

- 40° C temperature rise at rated current.
- Inductance tested at 10 KHZ and zero DC Bias.
- Operating temperature -40° to +85°C.



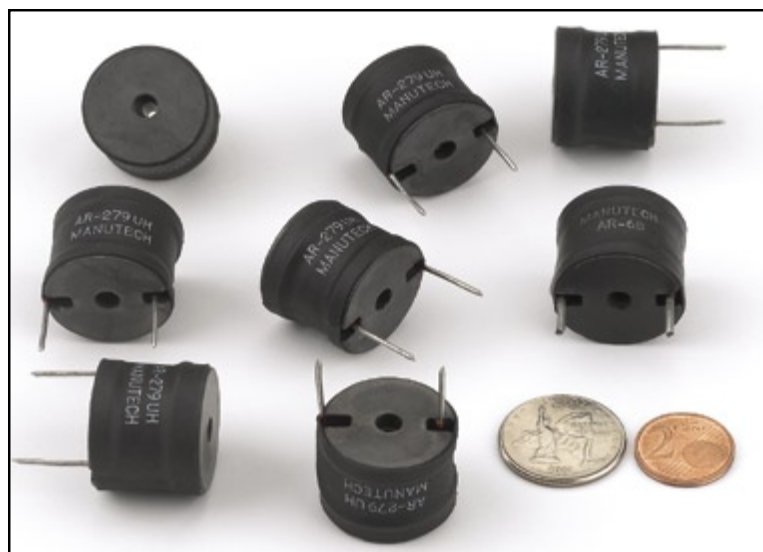
All dimensions are in inches.

Manutech Part Number	Inductance @ zero DC μH	DC Resistance m Ohm	Rated Current Amps	Incremental Current Drop 10%	Incremental Current Drop 20%	Incremental Current Drop 50%
MN355-15	15	0.015	12.0	4.0	6.0	11.0
MN355-25	25	0.015	10.0	2.7	4.5	9.0
MN355-50	50	0.016	7.5	1.7	3.2	6.8
MN355-70	70	0.040	6.6	1.5	2.9	6.2
MN355-100	100	0.055	5.6	1.2	2.2	5.0
MN355-150	150	0.080	4.0	0.9	1.5	3.6
MN355-200	200	0.160	3.4	0.8	1.4	3.1
MN355-250	250	0.220	3.3	0.8	1.3	3.0
MN355-300	300	0.246	3.1	0.7	1.2	2.8
MN355-380	380	0.265	3.0	0.6	1.0	2.8
MN355-450	450	0.290	2.7	0.5	0.9	2.5
MN355-500	500	0.326	2.3	0.5	0.7	2.1
MN355-610	610	0.400	2.0	0.4	0.5	1.9

Note: Inductance drops approximately 50% at rated current.

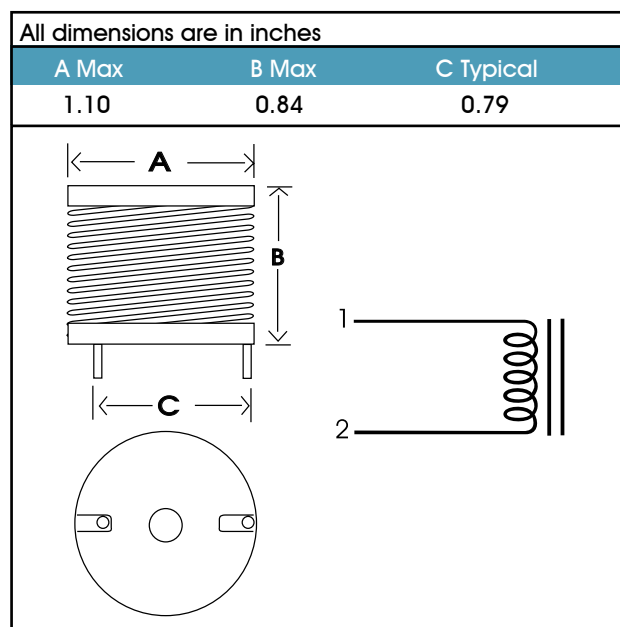
All specifications are subject to change without notice • Can be customized to your specific application

Manutech Part Number	L @ 1 KHz (μH)	DC Res. (Max)	DC Current (Amps)	Saturation Current (Amps)
MN473-1.0	1.0	0.003	21.0	116.0
MN473-1.2	1.2	0.003	21.0	116.0
MN473-1.5	1.5	0.003	21.0	116.0
MN473-1.8	1.8	0.003	21.0	90.0
MN473-2.2	2.2	0.003	21.0	90.0
MN473-2.7	2.7	0.003	21.0	74.0
MN473-3.3	3.3	0.003	21.0	74.0
MN473-3.9	3.9	0.003	21.0	62.0
MN473-4.7	4.7	0.003	21.0	54.0
MN473-5.6	5.6	0.003	21.0	54.0
MN473-6.8	6.8	0.004	21.0	47.0
MN473-8.2	8.2	0.004	21.0	42.0
MN473-10	10.0	0.006	17.0	38.0
MN473-12	12.0	0.008	13.5	35.0
MN473-15	15.0	0.009	13.5	32.0
MN473-18	18.0	0.010	13.5	29.0
MN473-22	22.0	0.011	13.5	25.0
MN473-27	27.0	0.012	13.5	23.0
MN473-33	33.0	0.017	13.5	20.0
MN473-39	39.0	0.022	11.4	19.0
MN473-47	47.0	0.024	9.0	19.1
MN473-56	56.0	0.026	9.0	17.5
MN473-68	68.0	0.029	9.0	15.6
MN473-82	82.0	0.032	9.0	14.0
MN473-100	100.0	0.034	9.0	13.2
MN473-120	120.0	0.046	7.2	12.1
MN473-150	150.0	0.064	5.5	10.8
MN473-180	180.0	0.072	5.5	9.7
MN473-220	220.0	0.080	5.5	8.7
MN473-270	270.0	0.110	4.5	7.9
MN473-330	330.0	0.122	4.5	7.1
MN473-390	390.0	0.169	4.0	6.7
MN473-470	470.0	0.187	4.0	6.0
MN473-560	560.0	0.205	4.0	5.5
MN473-680	680.0	0.256	2.8	5.0
MN473-820	820.0	0.288	2.8	4.5

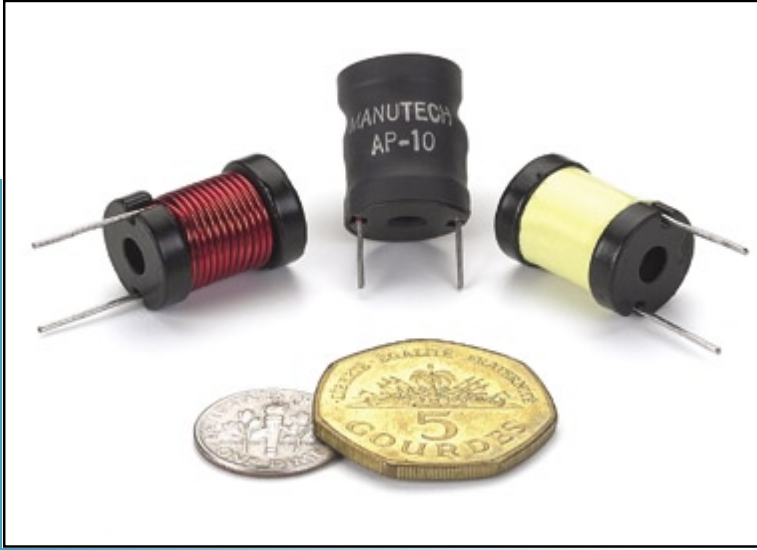


Features

- PCB mountable.
- High current capability.
- High flux density ferrite material.
- Non standard values available.
- Outer jacket polyolefin tubing.
- Inductance tolerance $\pm 15\%$.
- Tolerances of $\pm 10\%$, $\pm 5\%$, $\pm 3\%$ are optional.

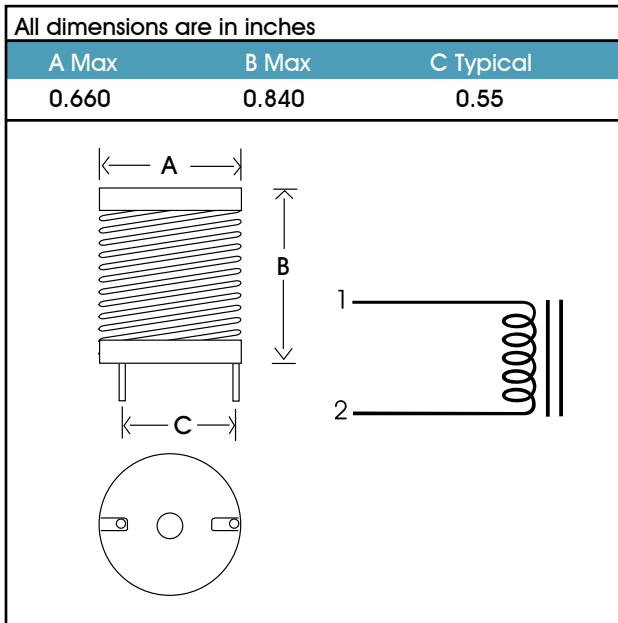


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Features

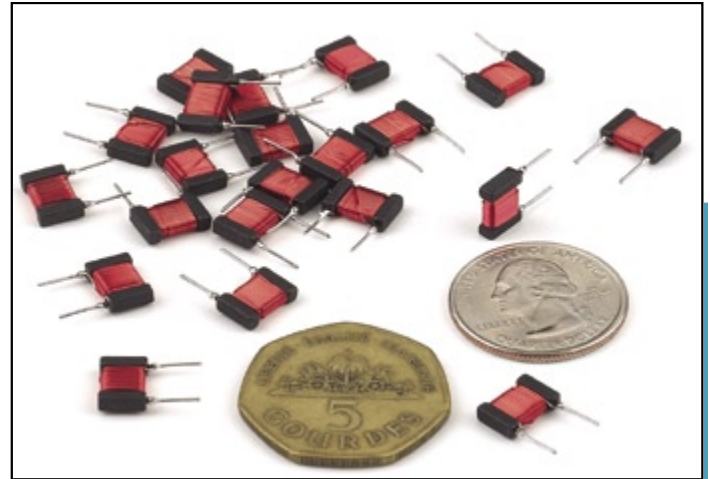
- PCB mountable.
- High current capability
- High flux density ferrite material
- Non standard values available
- Outer jacket polyolefin tubing
- Inductance tolerance $\pm 15\%$.
- Tolerances of $\pm 10\%$, $\pm 5\%$, $\pm 1\%$ optional.



Manutech Part Number	L @ 1 KHz (μ H)	DC Res. (Max)	DC Current (Amps)	Saturation Current (Amps)
MN470-1.0	1.0	0.003	9.0	87.0
MN470-1.2	1.2	0.003	9.0	68.0
MN470-1.5	1.5	0.004	9.0	56.0
MN470-1.8	1.8	0.004	9.0	56.0
MN470-2.2	2.2	0.005	9.0	47.0
MN470-2.7	2.7	0.005	9.0	47.0
MN470-3.3	3.3	0.005	9.0	40.0
MN470-3.9	3.9	0.006	9.0	36.0
MN470-4.7	4.7	0.007	9.0	32.0
MN470-5.6	5.6	0.007	9.0	29.0
MN470-6.8	6.8	0.008	9.0	26.0
MN470-8.2	8.2	0.009	9.0	24.0
MN470-10	10.0	0.010	9.0	21.0
MN470-12	12.0	0.011	9.0	19.0
MN470-15	15.0	0.011	7.2	16.0
MN470-18	18.0	0.016	7.2	16.0
MN470-22	22.0	0.020	5.5	16.0
MN470-27	27.0	0.030	4.5	14.0
MN470-33	33.0	0.040	4.0	13.0
MN470-39	39.0	0.046	4.0	12.0
MN470-47	47.0	0.062	2.8	11.0
MN470-56	56.0	0.069	2.8	10.0
MN470-68	68.0	0.077	2.8	8.9
MN470-82	82.0	0.083	2.8	8.2
MN470-100	100.0	0.095	2.8	7.5
MN470-120	120.0	0.127	2.0	5.8
MN470-150	150.0	0.181	1.6	5.6
MN470-180	180.0	0.217	1.6	5.1
MN470-220	220.0	0.240	1.6	4.3
MN470-270	270.0	0.300	1.6	4.1
MN470-330	330.0	0.336	1.3	3.8
MN470-390	390.0	0.460	1.0	3.3
MN470-470	470.0	0.636	0.8	3.2
MN470-560	560.0	0.696	0.8	2.9

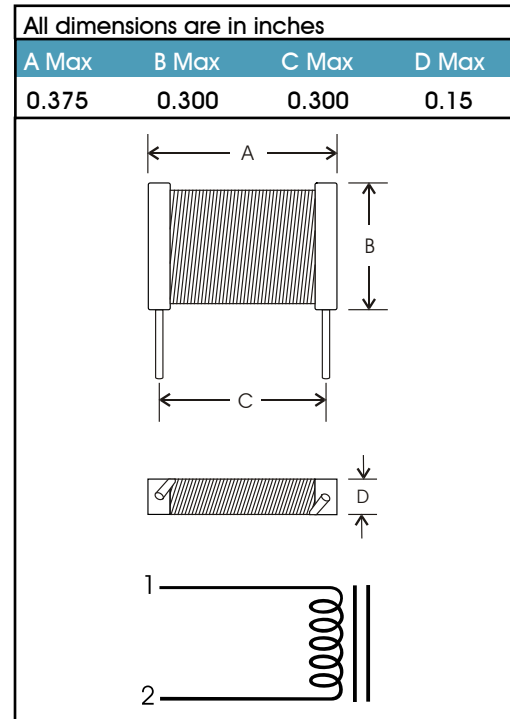
All specifications are subject to change without notice • Can be customized to your specific application

Manutech Part Number	Inductance @ 1 KHz L= μ H	Test Freq. (MHz)	Min Q	Max DC Res. (Ohms)	Current DC (Amps)	Sat. Current (Amps)
MN465-1.0	1.0	7.90	37	0.010	2.250	7.00
MN465-1.2	1.2	7.90	39	0.012	1.780	6.00
MN465-1.5	1.5	7.90	33	0.014	1.420	5.00
MN465-1.8	1.8	7.90	37	0.020	1.120	4.80
MN465-2.2	2.2	7.90	38	0.025	0.880	4.40
MN465-2.7	2.7	7.90	43	0.028	0.880	4.00
MN465-3.3	3.3	7.90	35	0.036	0.700	3.70
MN465-3.9	3.9	7.90	37	0.050	0.550	3.40
MN465-4.7	4.7	7.90	37	0.053	0.550	3.20
MN465-5.6	5.6	7.90	35	0.092	0.350	2.80
MN465-6.8	6.8	7.90	29	0.113	0.350	2.60
MN465-8.2	8.2	7.90	32	0.116	0.350	2.20
MN465-10	10.0	7.90	31	0.120	0.350	2.10
MN465-12	12.0	2.50	55	0.140	35.000	2.00
MN465-15	15.0	2.50	51	0.158	0.350	1.60
MN465-18	18.0	2.50	46	0.180	0.350	1.50
MN465-22	22.0	2.50	51	0.230	0.280	1.40
MN465-27	27.0	2.50	52	0.265	0.280	1.30
MN465-33	33.0	2.50	47	0.346	0.220	1.20
MN465-39	39.0	2.50	46	0.371	0.220	1.10
MN465-47	47.0	2.50	45	0.502	0.175	1.03
MN465-56	56.0	2.50	45	0.687	0.136	0.95
MN465-68	68.0	2.50	46	0.888	0.108	0.90
MN465-82	82.0	2.50	53	1.196	0.087	0.85
MN465-100	100.0	0.79	39	1.495	0.087	0.80
MN465-120	120.0	0.79	75	1.725	0.087	0.65
MN465-150	150.0	0.79	60	1.955	0.087	0.60
MN465-180	180.0	0.79	75	2.070	0.087	0.56
MN465-220	220.0	0.79	63	2.185	0.087	0.49
MN465-270	270.0	0.79	68	2.530	0.087	0.45
MN465-330	330.0	0.79	64	3.335	0.070	0.41
MN465-390	390.0	0.79	60	3.450	0.070	0.39
MN465-470	470.0	0.79	70	5.290	0.056	0.35
MN465-560	560.0	0.79	68	5.405	0.056	0.32
MN465-680	680.0	0.79	64	5.930	0.056	0.29
MN465-820	820.0	0.79	60	6.325	0.056	0.27
MN465-1000	1,000.0	0.79	40	7.130	0.056	0.25
MN465-1200	1,200.0	0.25	70	10.010	0.042	0.21
MN465-1500	1,500.0	0.25	72	14.260	0.033	0.19



Features

- High resistivity ferrite core.
- Easy PCB assembly.
- Leads pre-tinned, 24 AWG.
- Efficient high Q value.
- Non standard values available.
- Inductance tolerance $\pm 15\%$



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Features

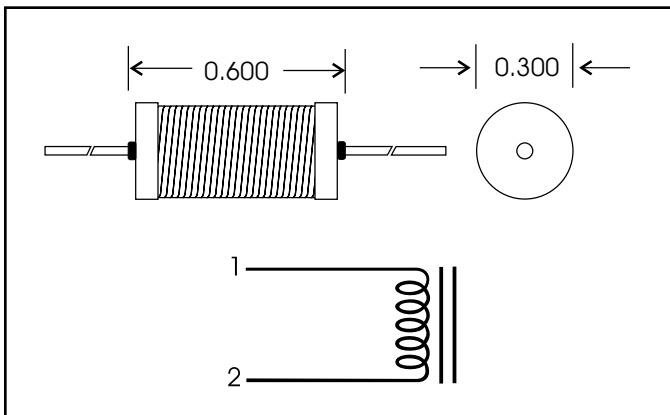
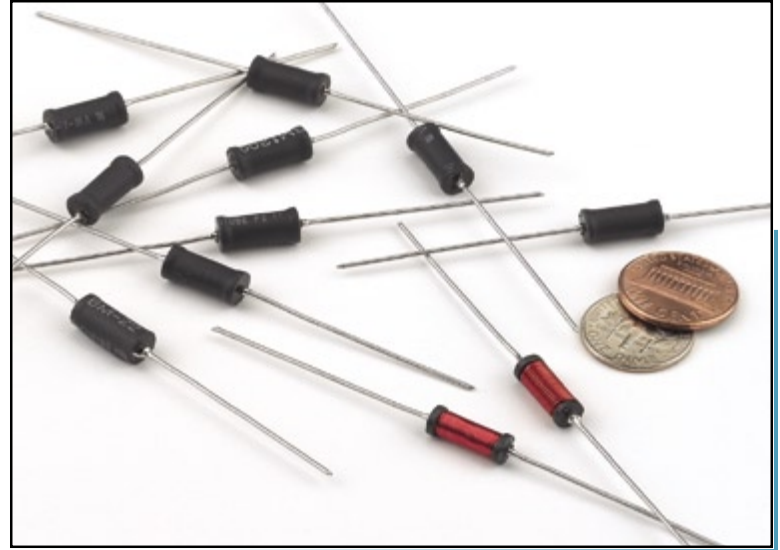
- High inductance in a miniature size
- Low core loss.
- Non standard values available
- Easy PCB assembly

Electrical Specifications

- Inductance range from 3 μ H to 18 mH.
- Inductance tolerance is $\pm 15\%$
- Tolerances of $\pm 10\%$, $\pm 5\%$, $\pm 3\%$, $\pm 1\%$ are optional.
- High saturation flux density at high temperature.

Mechanical Specifications

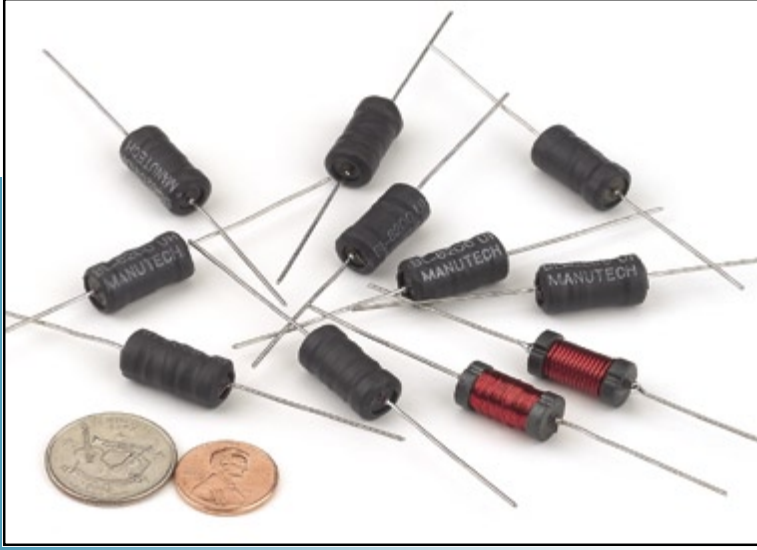
- Class B insulation.
- Polyolefin shrink tubing covered.
- Leads 100% tinned, 20 AWG, 1.5 inch length.
- Tape and reel packaging available for PCB insertion.



All dimensions are in inches.

Manutech Part Number	Inductance μ H @ 1KHz	DCR Ohm	Current (Amps)
MN461-10	10	0.033	2.80
MN461-12	12	0.037	2.60
MN461-15	15	0.040	2.50
MN461-18	18	0.044	2.40
MN461-22	22	0.050	2.40
MN461-27	27	0.070	1.90
MN461-33	33	0.075	1.80
MN461-39	39	0.090	1.70
MN461-47	47	0.105	1.60
MN461-56	56	0.130	1.40
MN461-68	68	0.135	1.30
MN461-82	82	0.165	1.20
MN461-100	100	0.208	1.10
MN461-120	120	0.283	0.94
MN461-150	150	0.330	0.87
MN461-180	180	0.362	0.83
MN461-220	220	0.500	0.70
MN461-270	270	0.557	0.67
MN461-330	330	0.660	0.62
MN461-390	390	0.773	0.57
MN461-470	470	1.150	0.49
MN461-560	560	1.270	0.47
MN461-680	680	1.610	0.41
MN461-820	820	1.980	0.36
MN461-1000	1,000	2.300	0.33

All specifications are subject to change without notice • Can be customized to your specific application



Manutech Part Number	Inductance μH @ 1 KHz	DCR Ohm	Current (Amps)
MN460-10	10	0.016	4.0
MN460-12	12	0.018	4.0
MN460-15	15	0.020	4.0
MN460-18	18	0.022	4.0
MN460-22	22	0.024	4.0
MN460-27	27	0.025	4.0
MN460-33	33	0.028	4.0
MN460-39	39	0.031	4.0
MN460-47	47	0.034	4.0
MN460-56	56	0.043	3.2
MN460-68	68	0.059	2.5
MN460-82	82	0.066	2.0
MN460-100	100	0.084	1.6
MN460-120	120	0.113	1.6
MN460-150	150	0.129	1.6
MN460-180	180	0.150	1.6
MN460-220	220	0.162	1.6
MN460-270	270	0.226	1.6
MN460-330	330	0.257	1.6
MN460-390	390	0.288	1.6
MN460-470	470	0.393	1.2
MN460-560	560	0.504	1.0
MN460-680	680	0.570	1.0
MN460-820	820	0.643	0.8
MN460-1000	1,000	0.844	0.8

Features

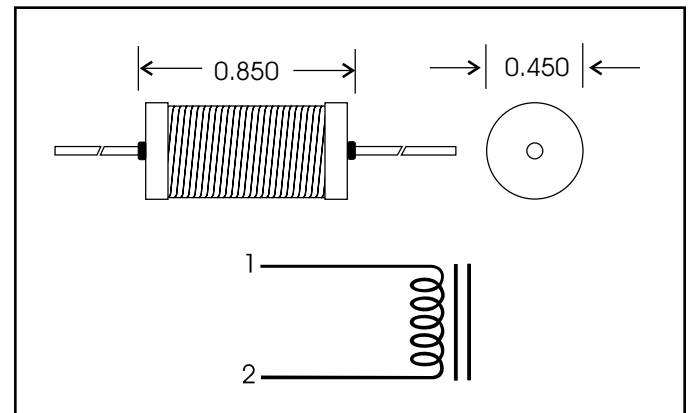
- 10 μH @ 4 Amps to 1000 μH @ 0.80 Amp
- High inductance in a small size.
- Easy to use on a PCB.
- Non standard values available.

Electrical Specifications

- Inductance range from 3 μH to 100 mH.
- Inductance tolerance is $\pm 15\%$.
- Tolerances of $\pm 10\%$, $\pm 5\%$, $\pm 3\%$, $\pm 1\%$ optional.
- Ferrite high resistivity will allow high parallel-resistance and maximum coil performance

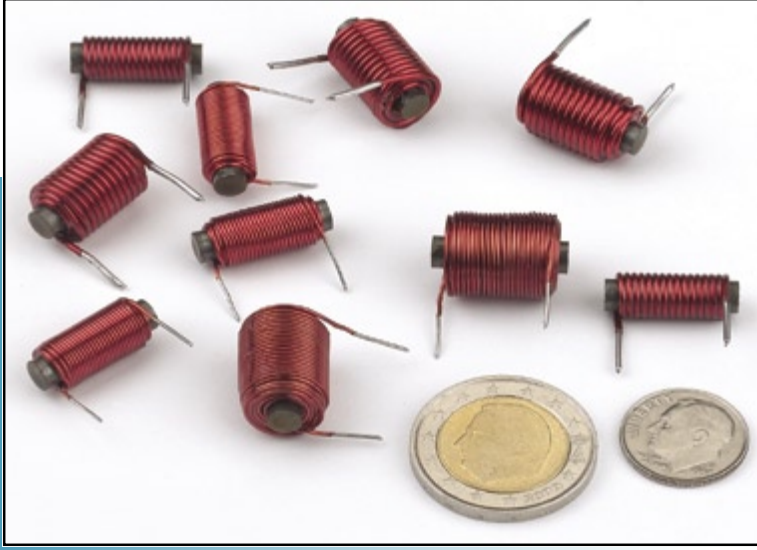
Mechanical Specifications

- Class B insulation.
- Covered with polyolefin shrink tubing.
- Leads 100% tinned, 20 AWG, 1.5 inch.
- Packed in poly-bags
- Available on tape and reel.



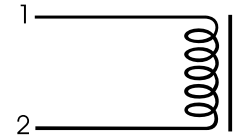
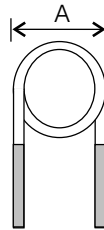
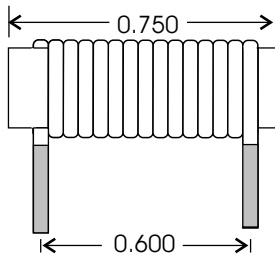
All dimensions are in inches.

All specifications are subject to change without notice • Can be customized to your specific application



Features

- Radial low cost construction.
- Stable core at RF frequency.
- Non standard values available.
- Shrink tubing over winding optional.



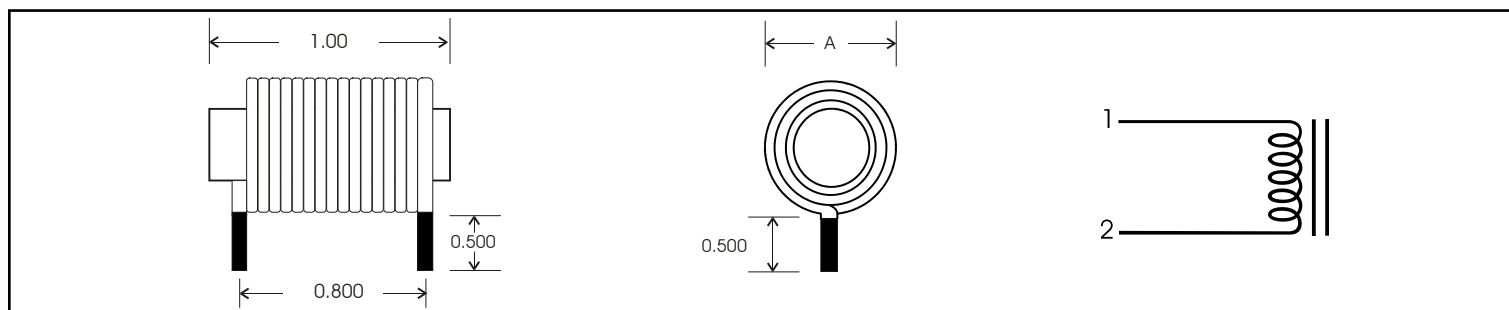
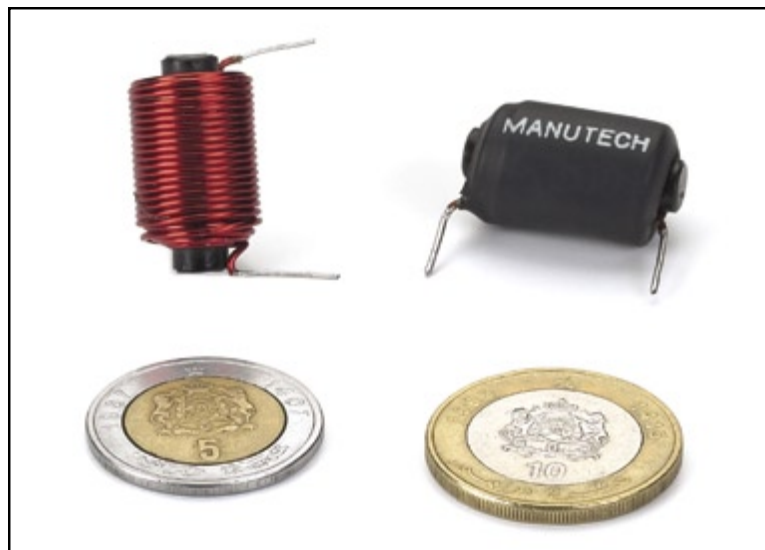
All dimensions are in inches.

Manutech Part Number	Inductance @ 1 KHz L=μH	Max DCR Ohms	Current with zero drop in L	ADC 10% L drop	Dimension A Inch
MN450-10	10	0.03	0.17	0.47	0.300
MN450-20	20	0.03	0.10	0.29	0.300
MN450-27	27	0.03	0.09	0.25	0.300
MN450-39	39	0.04	0.06	0.19	0.350
MN450-47	47	0.07	0.06	0.18	0.350
MN450-50	50	0.07	0.06	0.18	0.355
MN450-56	56	0.08	0.06	0.17	0.355
MN450-68	68	0.09	0.05	0.16	0.400
MN450-100	100	0.11	0.04	0.13	0.400
MN450-120	120	0.12	0.04	0.12	0.450
MN450-150	150	0.14	0.04	0.11	0.450
MN450-180	180	0.17	0.04	0.10	0.450
MN450-200	200	0.24	0.03	0.09	0.475
MN450-220	220	0.25	0.03	0.08	0.475
MN450-270	270	0.27	0.03	0.08	0.475

All specifications are subject to change without notice • Can be customized to your specific application

Features

- Easy PCB mount.
- Small package vs. inductance.
- Shrink tubing optional.
- Low cost construction.
- Stable core at high frequency.



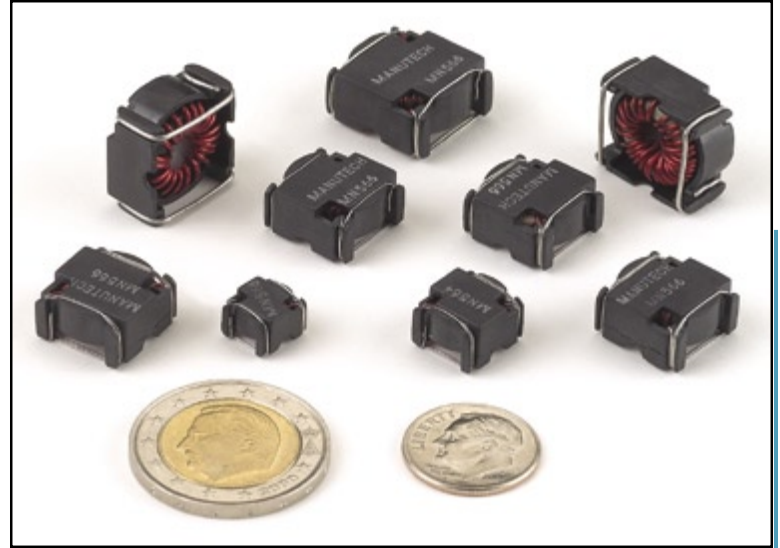
All dimensions are in inches.

Manutech Part Number	Inductance @ 1 KHz $L = \mu\text{H}$	Maximum DCR Ohms	Rated Current (Amps)	Dimension A Inch
MN452-10	10	0.014	10	0.31
MN452-22	22	0.019	10	0.35
MN452-33	33	0.026	10	0.40
MN452-47	47	0.044	8	0.40
MN452-50	50	0.045	8	0.50
MN452-68	68	0.051	7	0.45
MN452-82	82	0.059	7	0.45
MN452-100	100	0.071	6	0.45
MN452-120	120	0.078	6	0.50
MN452-150	150	0.087	6	0.50
MN452-180	180	0.098	6	0.50
MN452-220	220	0.116	5	0.56
MN452-270	270	0.172	4	0.56
MN452-300	300	0.185	3	0.56
MN452-330	330	0.200	3	0.60

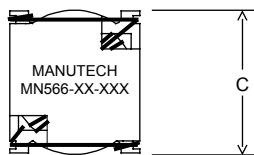
All specifications are subject to change without notice • Can be customized to your specific application

Features

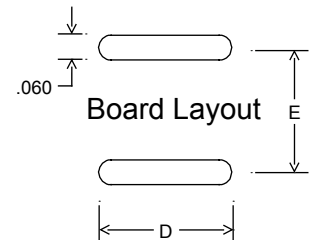
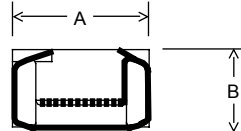
- 10 μ H @ 7 Amps to 100 μ H @ 0.92 Amp.
- Toroidal inductors with minimum EMI.
- High efficiency toroidal inductors.
- Other values available.



Top View



Side View



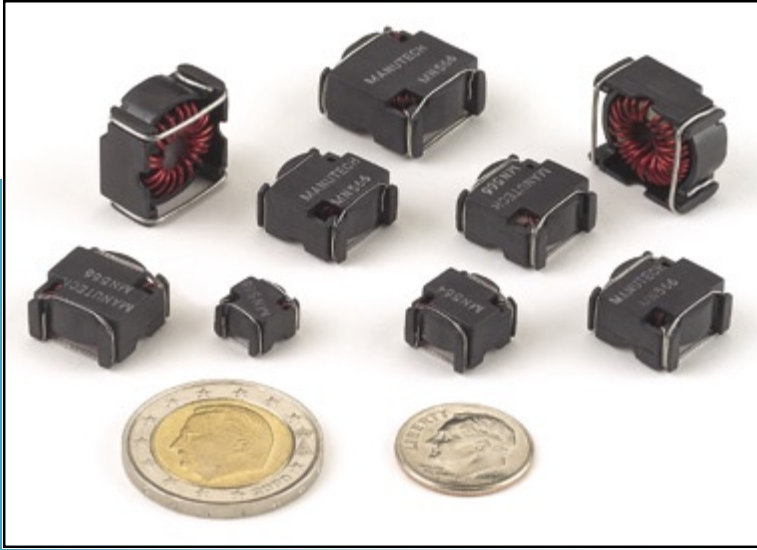
All dimensions are in inches.

Manutech Part Number	L μ H @ 1kHz $\pm 10\%$	Current Rating ADC	Incr. I ADC ΔL 10%	Incr. I ADC ΔL 20%	DCR Ω Max	SRF MHz Min	A Dim Max	B Dim Max	C Dim Max	D Dim Nom	E Dim Nom
MN566-5-10	10	7.36	6.0	8.7	0.01	35.0	0.67	0.4	0.70	0.6	0.6
MN566-5-75	75	3.47	1.6	2.5	0.05	5.0	0.67	0.4	0.70	0.6	0.6
MN566-5-100	100	3.14	1.5	2.2	0.06	4.0	0.67	0.4	0.70	0.6	0.6
MN566-5-250	250	1.84	0.9	1.4	0.16	1.5	0.67	0.4	0.70	0.6	0.6
MN566-5-330	330	1.69	0.8	1.2	0.19	1.0	0.67	0.4	0.70	0.6	0.6
MN566-6-10	10	4.84	3.8	5.7	0.02	35.0	0.56	0.4	0.57	0.5	0.5
MN566-6-75	75	1.69	1.3	2.0	0.14	9.0	0.56	0.4	0.57	0.5	0.5
MN566-6-100	100	1.60	1.1	1.7	0.16	6.0	0.56	0.4	0.57	0.5	0.5
MN566-6-200	200	1.12	0.7	1.1	0.32	3.0	0.56	0.4	0.57	0.5	0.5
MN566-6-250	250	1.05	0.7	1.1	0.36	2.5	0.56	0.4	0.57	0.5	0.5
MN566-7-10	10	2.56	2.2	3.4	0.05	35.0	0.44	0.4	0.44	0.4	0.4
MN566-7-50	50	1.81	1.2	1.3	0.10	10.0	0.44	0.4	0.44	0.4	0.4
MN566-7-100	100	1.50	0.6	1.0	0.15	6.0	0.44	0.4	0.44	0.4	0.4
MN566-7-200	200	1.04	0.5	0.7	0.30	3.0	0.44	0.4	0.44	0.4	0.4
MN566-7-250	250	0.96	0.5	0.7	0.36	3.0	0.44	0.4	0.44	0.4	0.4
MN566-8-25	25	1.33	0.6	0.9	0.15	30.0	0.34	0.3	0.34	0.3	0.3
MN566-8-50	50	1.12	0.4	0.6	0.21	10.0	0.34	0.3	0.34	0.3	0.3
MN566-8-100	100	0.92	0.3	0.4	0.30	6.0	0.34	0.3	0.34	0.3	0.3

Note:

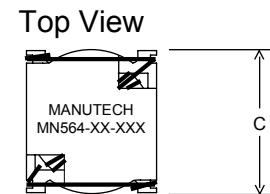
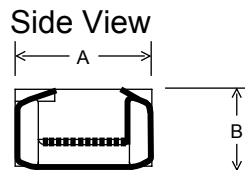
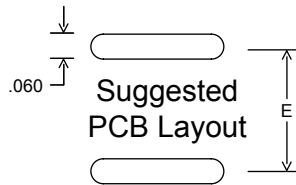
1. Rated current is based on a 40° C temperature rise from the ambient temperature.
2. Incremental current is the approximate value that will cause a percentage drop in inductance as indicated in the table.

All specifications are subject to change without notice • Can be customized to your specific application



Features

- 10 μH @ 7 Amps to 100 μH @ 0.92 Amp.
- Toroidal inductors with minimum EMI.
- Economy construction.
- Other values available.



All dimensions are in inches.

Manutech Part Number	L μH @ 1kHz $\pm 10\%$	Current Rating ADC	Incr. I ADC ΔL 10%	Incr. I ADC ΔL 20%	DCR Ω Max	SRF MHz Min	A Dim Max In.	B Dim Max In.	C Dim Max In.	D Dim Nom In.	E Dim Nom In.
MN564-1-10	10	7.36	1.70	3.30	0.010	35.0	0.67	0.4	0.70	0.6	0.6
MN564-1-25	25	5.20	1.00	1.90	0.020	10.0	0.67	0.4	0.70	0.6	0.6
MN564-1-50	50	3.93	0.70	1.30	0.035	7.0	0.67	0.4	0.70	0.6	0.6
MN564-1-100	100	3.14	0.50	0.96	0.055	4.0	0.67	0.4	0.70	0.6	0.6
MN564-1-200	200	1.97	0.35	0.65	0.140	2.0	0.67	0.4	0.70	0.6	0.6
MN564-1-250	250	1.84	0.31	0.59	0.160	1.5	0.67	0.4	0.70	0.6	0.6
MN564-1-330	330	1.69	0.27	0.50	0.190	1.0	0.67	0.4	0.70	0.6	0.6
MN564-2-10	10	4.84	1.30	2.50	0.017	35.0	0.56	0.4	0.57	0.5	0.5
MN564-2-50	50	1.90	0.56	1.00	0.110	13.0	0.56	0.4	0.57	0.5	0.5
MN564-2-100	100	1.60	0.40	0.76	0.155	6.0	0.56	0.4	0.57	0.5	0.5
MN564-2-200	200	1.12	0.30	0.56	0.320	3.0	0.56	0.4	0.57	0.5	0.5
MN564-3-10	10	2.56	0.80	1.60	0.050	35.0	0.44	0.4	0.44	0.4	0.4
MN564-3-25	25	2.16	0.50	0.96	0.070	25.0	0.44	0.4	0.44	0.4	0.4
MN564-3-50	50	1.81	0.35	0.68	0.100	10.0	0.44	0.4	0.44	0.4	0.4
MN564-3-100	100	1.50	0.23	0.50	0.145	6.0	0.44	0.4	0.44	0.4	0.4
MN564-3-250	250	0.96	0.15	0.30	0.355	3.0	0.44	0.4	0.44	0.4	0.4
MN564-4-10	10	1.60	0.43	0.86	0.100	35.0	0.34	0.3	0.34	0.3	0.3
MN564-4-50	50	1.12	0.18	0.35	0.205	10.0	0.34	0.3	0.34	0.3	0.3
MN564-4-100	100	0.92	0.13	0.25	0.300	6.0	0.34	0.3	0.34	0.3	0.3

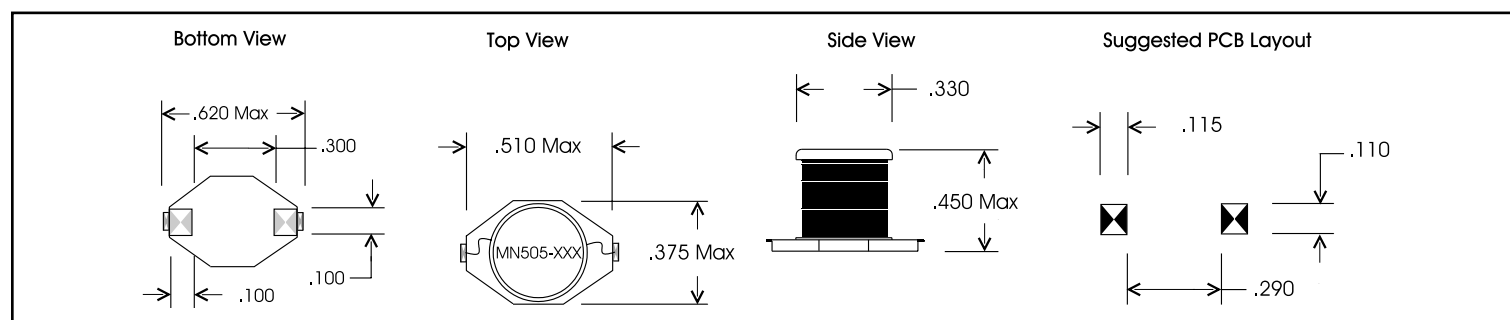
Note:

1. Rated current is based on a 40° C temperature rise from an ambient temperature.
2. Incremental current is the approximate value that will cause a percentage drop in inductance as indicated in the table.

All specifications are subject to change without notice • Can be customized to your specific application

Features

- Inductance from 10 to 1000 micro Henries
- Current from 4.2 Amps to 0.55 Amp.
- Small footprint.
- Withstands reflow temperature of 240° for 30 seconds.



All dimensions are in inches.

Manutech Model #	Inductance @ 100 kHz μH ±20%	DCR Ω Max	Current Rating Amps DC ¹	Saturation Current Amps DC ²
MN505-10	10	0.035	4.20	9.00
MN505-15	15	0.045	3.90	7.40
MN505-22	22	0.070	3.00	6.00
MN505-33	33	0.117	2.80	4.80
MN505-47	47	0.110	2.30	4.00
MN505-68	68	0.140	2.10	3.60
MN505-100	100	0.220	1.70	2.80
MN505-150	150	0.320	1.40	2.40
MN505-220	220	0.398	1.20	1.80
MN505-330	330	0.700	0.93	1.60
MN505-470	470	0.950	0.80	1.20
MN505-680	680	1.200	0.71	1.00
MN505-1000	1,000	2.000	0.55	0.84

Note:

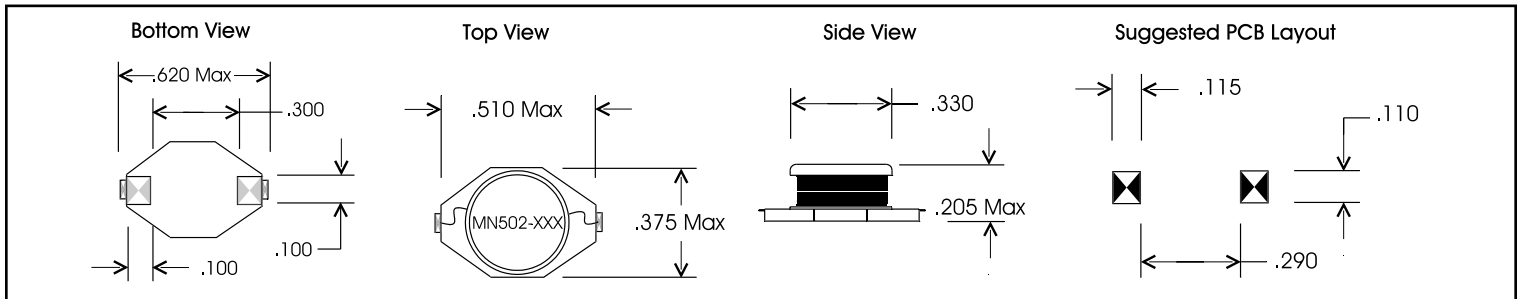
1. Current rating is based on a 40° C temperature rise at an ambient temperature.
2. Saturation current is the approximate value that will reduce the initial inductance by 10%

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Features

- Inductance from 1 μH @ 9 Amps to 1000 μH @ 0.44 Amp.
- Miniature surface mount footprint.
- Withstands reflow temperature of 240° C for 30 seconds.



All dimensions are in inches.

Manutech Model Number	Inductance @ 100 kHz $\mu\text{H} \pm 20\%$	DCR Ω Max	Current Rating Amps DC ¹	Saturation Current Amps DC ²
MN502-1	1.0	0.007	9.30	11.00
MN502-1.5	1.5	0.008	8.30	10.40
MN502-2.2	2.2	0.009	7.60	7.80
MN502-3.3	3.3	0.013	6.50	7.00
MN502-4.7	4.7	0.016	5.60	5.60
MN502-6.8	6.8	0.020	5.00	5.00
MN502-10	10.0	0.030	4.40	4.20
MN502-15	15.0	0.045	3.50	3.40
MN502-22	22.0	0.060	2.90	3.00
MN502-33	33.0	0.095	2.30	2.40
MN502-47	47.0	0.130	2.00	1.80
MN502-68	68.0	0.178	1.70	1.60
MN502-100	100.0	0.260	1.40	1.40
MN502-150	150.0	0.380	1.20	1.00
MN502-220	220.0	0.550	0.97	0.90
MN502-330	330.0	0.870	0.77	0.70
MN502-470	470.0	1.230	0.65	0.64
MN502-680	680.0	1.710	0.55	0.50
MN502-1000	1,000.0	2.640	0.44	0.42

Note:

1. Current rating is based on a 40° C temperature rise at an ambient temperature.
2. Saturation current is the approximate value that will reduce the initial inductance by 10%

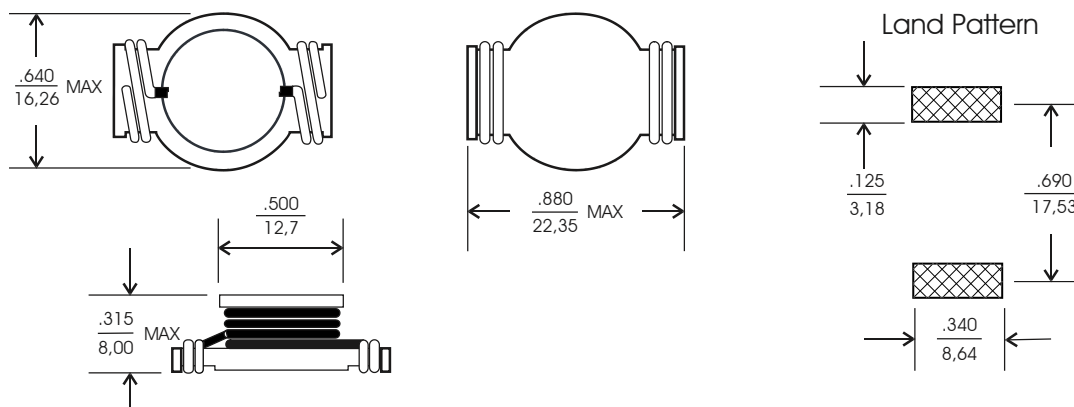
All specifications are subject to change without notice • Can be customized to your specific application

Features

- High current capability.
- Rugged construction.
- Low losses due to low resistance.

Specifications

- Current rating from 15 Amps to 4 Amps
- Saturation current from 30 Amps to 8 Amps.
- Operating temperature from -40° to 85° C.



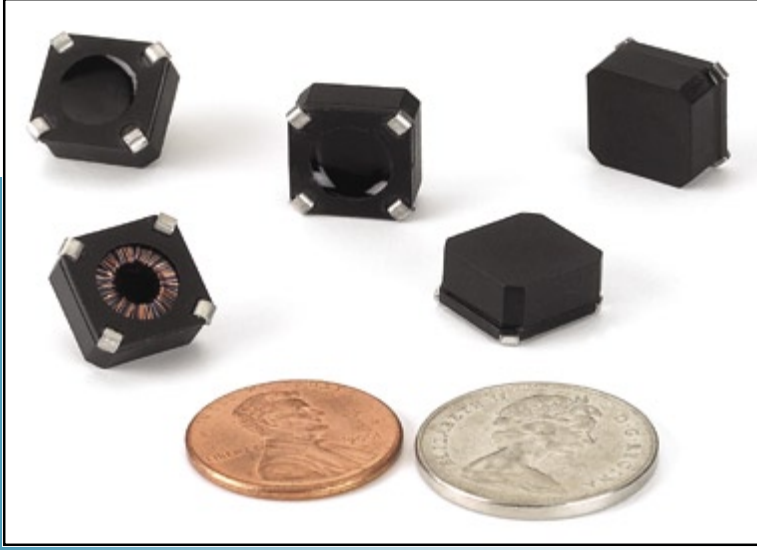
All dimensions are in inches.

Manutech Model Number	Inductance @ 100 kHz $\mu\text{H} \pm 20\%$	DCR $\text{m}\Omega$ Max	Current Rating Amps rms^1	Saturation Current Amps ²
MN514-0.8	0.8	2.60	15.0	30.0
MN514-1.5	1.5	4.00	15.0	25.0
MN514-2.2	2.2	6.10	12.0	20.0
MN514-3.3	3.3	8.60	10.0	17.0
MN514-3.9	3.9	10.00	9.0	15.0
MN514-4.7	4.7	14.00	8.4	13.0
MN514-6	6.0	17.00	7.5	12.0
MN514-7.8	7.8	18.00	7.5	11.0
MN514-10	10.0	26.00	6.0	10.0
MN514-15	15.0	32.00	4.4	8.0

Note:

1. Current rating is based on a 40° C temperature rise from ambient.
2. Saturation current is the approximate value that will reduce the initial inductance by 10%

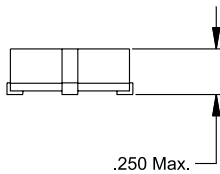
All specifications are subject to change without notice • Can be customized to your specific application



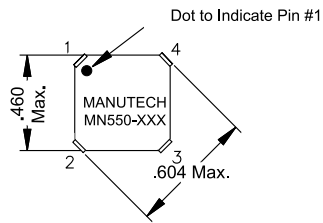
Features

- High Energy storage device.
- $0.5 \mu\text{H}$ @ 8 Amps to $1216 \mu\text{H}$ @ 0.38 Amps.
- Parallel windings result in low resistance and high current.
- Series windings result in high inductance
- More economical than MN558.

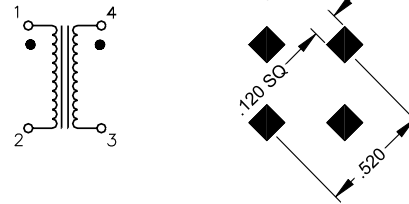
Side View .604 Dim



Top View



Suggested PCB Layout



All dimensions are in inches.

Manutech Part Number	Parallel Ratings				Series Ratings			
	Open Circuit Inductance	Full Load Current	Full Load Inductance	DCR Ω Nominal	Open Circuit Inductance	Full Load Current	Full Load Inductance	DCR Ω Nominal
	$\mu\text{H} \pm 20\% @ 1 \text{ kHz}$	ADC	$\mu\text{H} @ 1 \text{ kHz}$		$\mu\text{H} \pm 20\% @ 1 \text{ kHz}$	ADC	(ref.) $\mu\text{H} @ 1 \text{ kHz}$	
MN550-0.5	0.50	8.71	0.37	0.004	2.0	4.36	1.48	0.016
MN550-1	0.90	7.79	0.63	0.005	3.6	3.90	2.52	0.020
MN550-1.35	1.35	7.11	0.89	0.006	5.4	3.56	3.56	0.024
MN550-2	2.00	6.58	1.21	0.007	8.0	3.29	4.84	0.028
MN550-5.5	5.50	4.65	3.08	0.014	22.0	2.32	12.32	0.056
MN550-801	7.75	4.35	4.05	0.016	31.0	2.18	16.20	0.064
MN550-112	10.50	3.89	5.41	0.020	42.0	1.95	21.64	0.080
MN550-161	15.75	3.56	7.03	0.024	63.0	1.78	28.12	0.096
MN550-22	22.00	2.60	11.24	0.045	88.0	1.30	44.96	0.180
MN550-26	26.00	2.49	13.08	0.049	104.0	1.25	52.32	0.196
MN550-34	34.00	2.33	15.88	0.056	136.0	1.17	63.52	0.224
MN550-50	50.00	1.88	24.42	0.086	208.0	0.94	97.68	0.344
MN550-70	70.00	1.73	31.53	0.101	280.0	0.87	126.12	0.404
MN550-75	75.00	1.56	34.78	0.125	296.0	0.78	139.12	0.500
MN550-100	100.00	1.41	46.05	0.152	420.0	0.71	184.20	0.608
MN550-150	150.00	1.01	78.96	0.300	608.0	0.51	315.84	1.200
MN550-200	200.00	0.94	96.56	0.343	804.0	0.47	386.24	1.372
MN550-250	250.00	0.79	129.98	0.486	1000.0	0.40	519.92	1.944
MN550-300	300.00	0.75	145.97	0.536	1216.0	0.38	583.88	2.144

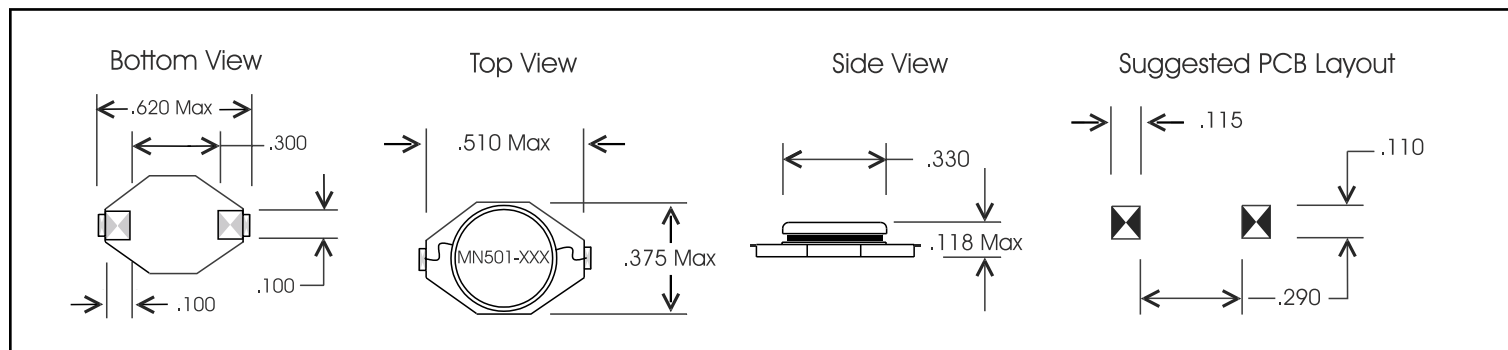
Note:

The full load current is the current rating that will cause a maximum temperature rise of 40°C from ambient.

All specifications are subject to change without notice • Can be customized to your specific application

Features

- 10 μH @ 2 Amps to 4700 μH @ 0.1 Amp.
- Inductors with small height.
- Miniature surface mount package.
- Withstands reflow temperature of 240° C for 30 seconds.



All dimensions are in inches.

Manutech Part Number	Inductance @ 100 kHz $\mu\text{H} \pm 20\%$	DCR Ω Max	Current Rating Amps DC ¹	Saturation Current Amps DC ²
MN501-10	10	0.100	2.00	3.00
MN501-15	15	0.115	1.70	2.50
MN501-22	22	0.150	1.50	2.00
MN501-33	33	0.210	1.30	1.70
MN501-47	47	0.320	1.00	1.40
MN501-68	68	0.460	0.87	1.20
MN501-100	100	0.645	0.74	0.94
MN501-150	150	1.050	0.58	0.77
MN501-220	220	1.620	0.46	0.64
MN501-330	330	2.280	0.39	0.53
MN501-470	470	2.760	0.35	0.43
MN501-680	680	4.360	0.28	0.36
MN501-1000	1,000	6.620	0.23	0.30
MN501-2200	2,200	12.500	0.17	0.18
MN501-3300	3,300	19.300	0.13	0.15
MN501-4700	4,700	32.000	0.10	0.14

Note:

1. Current Rating is based on a 40° C temperature rise from ambient.
2. Saturation current is the approximate value that will reduce the initial inductance by 10%

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