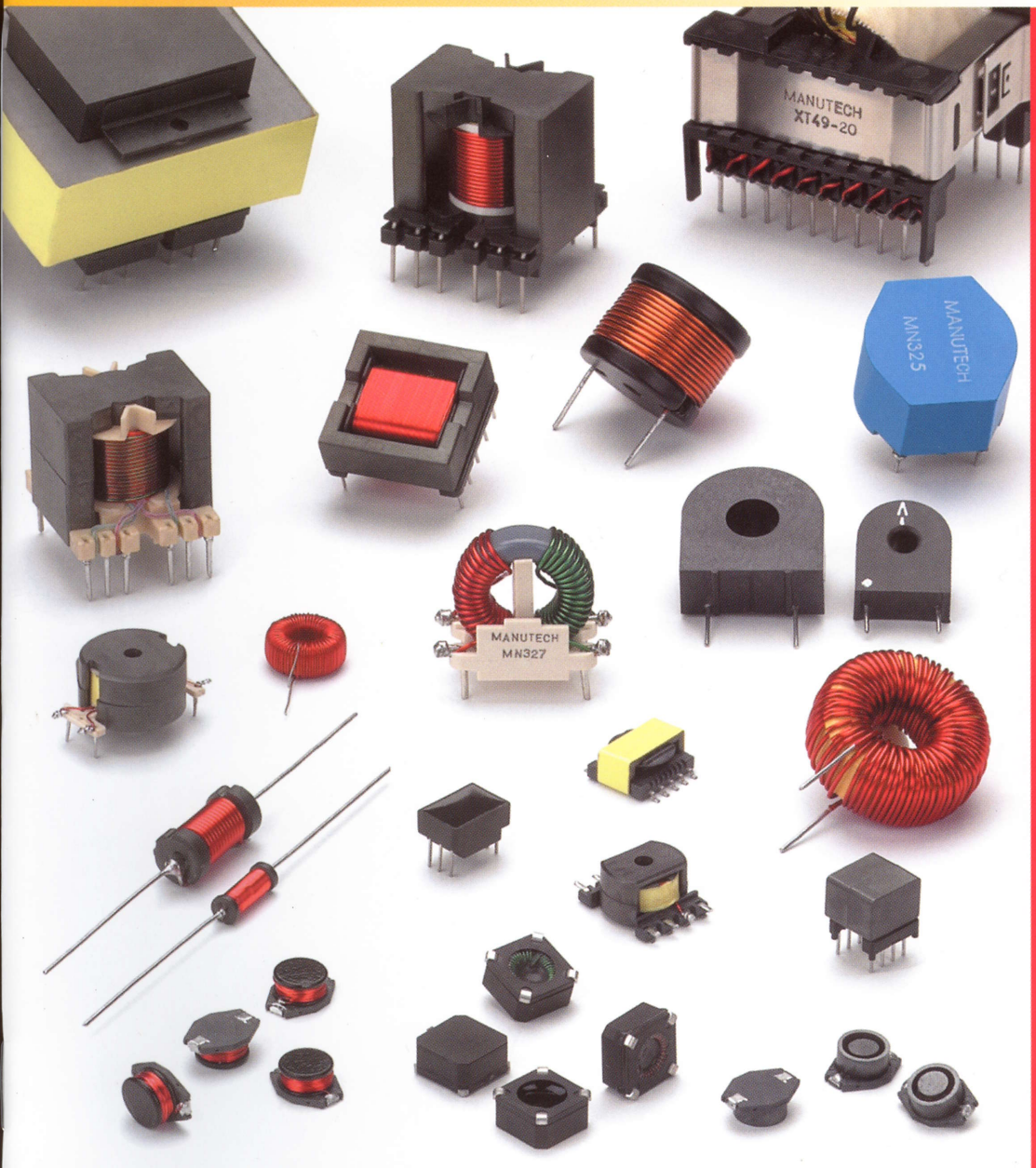
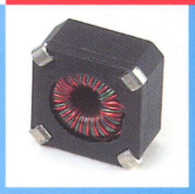
TRANSFORMERS & *Filter* INDUCTORS



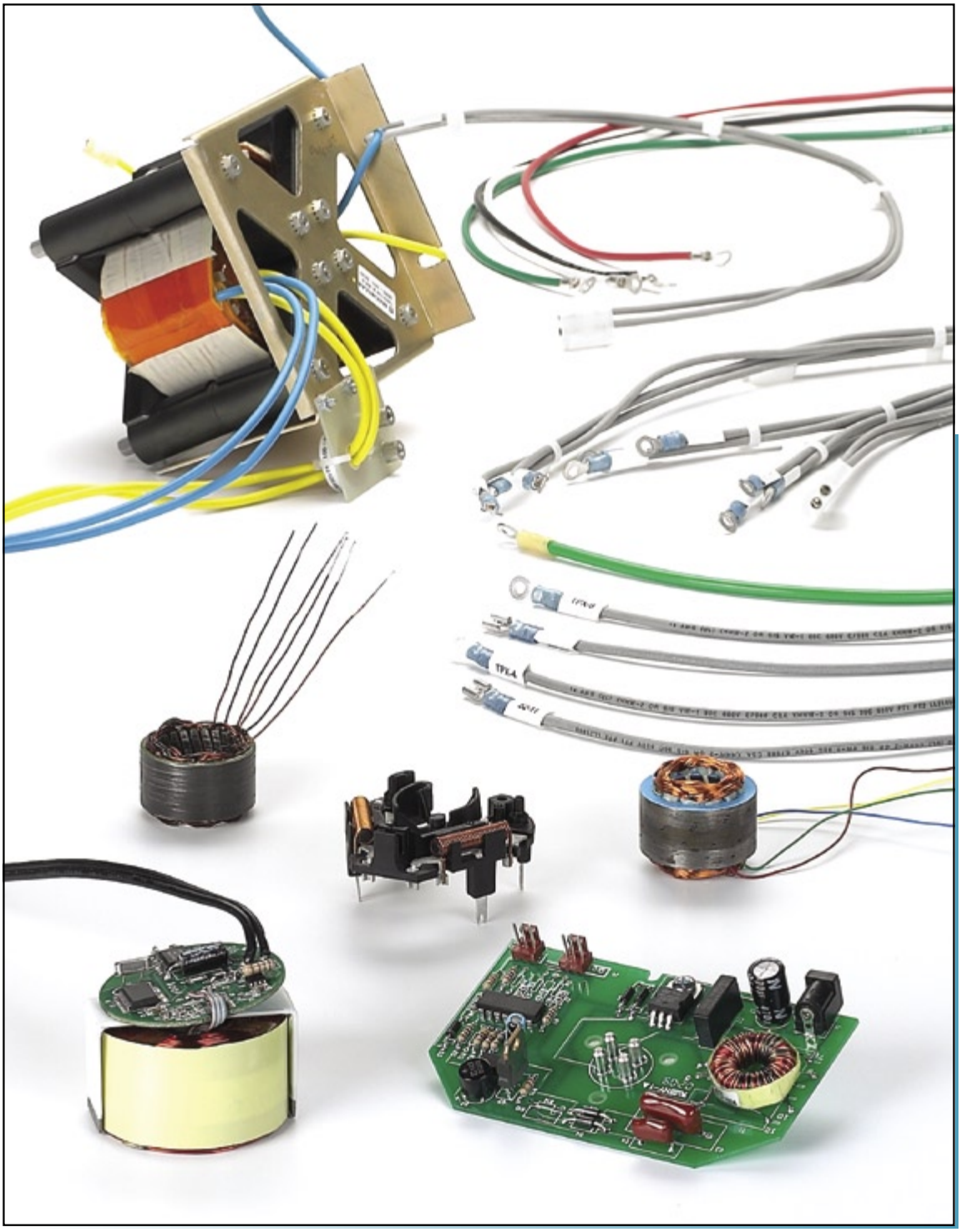


Manutech Inc.

Custom-Made Transformers & Inductors

Other Electronic Components

- Stators
- Wire Harnesses
- Electro-Mechanical Assemblies
- Printed Circuit Board Assembly



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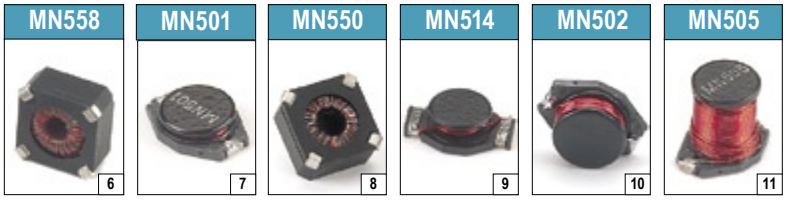
Surface Mount Inductors



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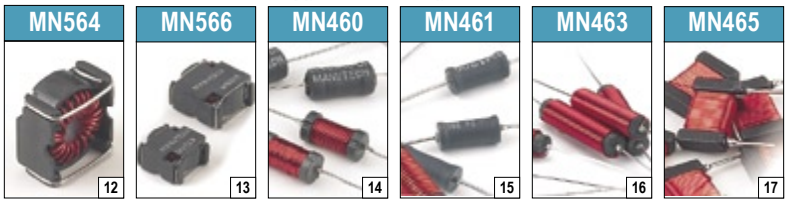

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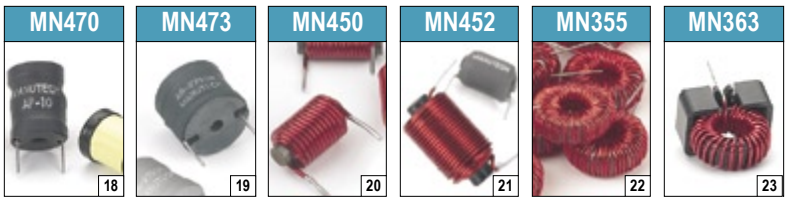
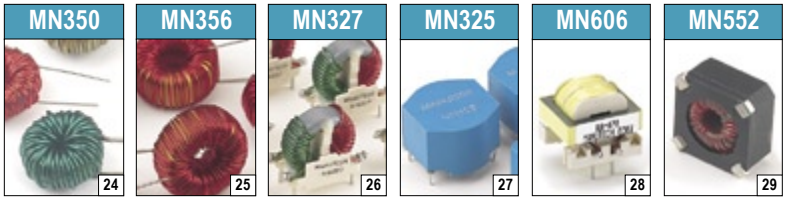
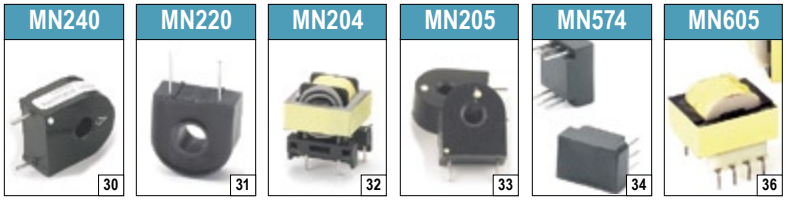


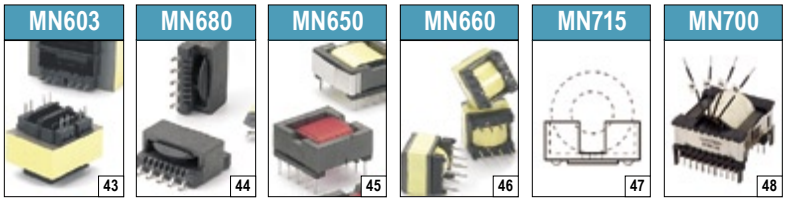
Toroidal Inductors

Common Mode Inductors



Current Sense Devices





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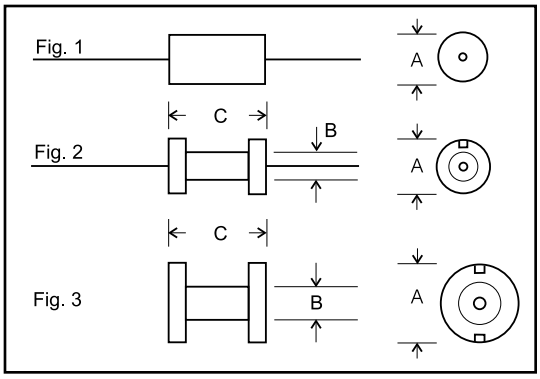
Ferrite Coilforms

Features

- Axial leaded coilforms and bobbins are ideal for wound inductors.
- Inductance L in milli Henries can be calculated by the formula:

$$L = N^2 A_l$$

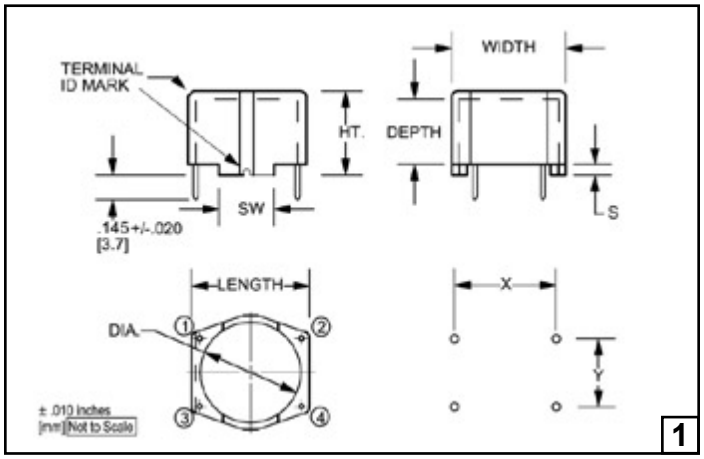
where N is the number of turns, A_l is the inductance factor in nano Henries.

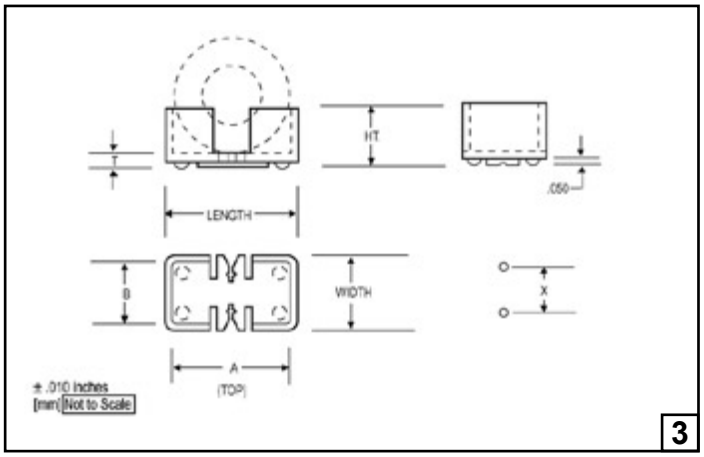


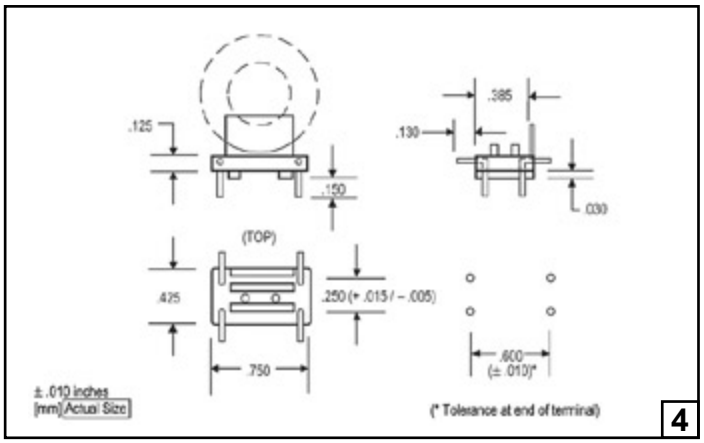
Manutech Part Number	Material	Fig.	A Dimension	B Dimension	C Dimension	AL Value
2161207010	61	1	0.187/4.7	-	.625/16	-
2061252010	61	1	0.250/6.3	-	0.750/19	-
2033252010	33	1	0.250/6.3	-	0.750/19	-
2061251010	61	1	0.250/6.3	-	0.875/22	-
2033251010	33	1	0.250/6.3	-	0.875/22	-
2061253010	61	1	0.250/6.3	-	1.000/25	-
2033253010	33	1	0.250/6.3	-	1.000/25	-
2061261010	61	1	0.250/6.3	-	1.250/32	-
9777001161	77	2	0.195/5	0.110/2.8	0.500/12.7	17
9743001161	43	2	0.195/5	0.110/2.8	0.500/12.7	17
9777001011	77	2	0.370/9.4	0.185/4.7	0.750/19	39
9743001011	43	2	0.370/9.4	0.185/4.7	0.750/19	39
9677142009	77	3	0.550/14	0.390/10	0.787/20	52
9677182009	77	3	0.708/18	0.430/11	0.787/20	65
9677242009	77	3	0.945/24	0.512/13	0.787/20	88
9677242409	77	3	0.945/24	0.512/13	0.945/24	84
9677282009	77	3	1.102/28	0.670/17	0.787/20	100
9677282509	77	3	1.102/28	0.670/17	0.985/25	95

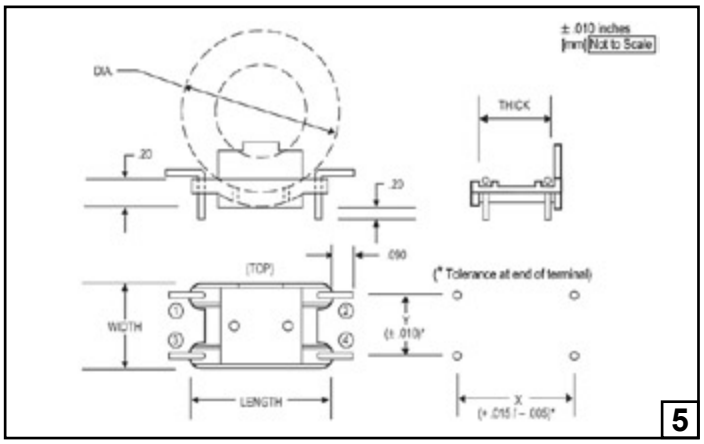
All specifications are subject to change without notice • Can be customized to your specific application

- Transformers and inductors can be supplied on any of the headers on this page.
- Please contact our engineering department for help with your design.









Part	FIG.	LENGTH	WIDTH	HT.	DEPTH	DIA.	SW	S	X	Y	Z
HTC583	1	0.689	0.689	0.492	0.394	0.602	0.315	0.060	0.590	0.394	0.580
HTC764	1	0.886	0.660	0.450	0.345	0.600	0.305	0.060	0.600	0.400	0.790
HTC965	1	1.080	1.080	0.690	0.550	0.972	0.472	0.098	0.984	0.590	0.200

Part	FIG.	LENGTH	WIDTH	A	B	HT.	T	X	DIA.	KLIPWIRE Size
KM44	3	0.580	0.340	0.480	0.240	0.280	0.110	0.220	0.450	24-23 AWG
KM50	3	0.650	0.450	0.550	0.350	0.300	0.110	0.300	0.550	24-21 AWG
KM68	3	0.830	0.450	0.730	0.350	0.370	0.110	0.300	0.725	24-21 AWG
KM80	3	0.950	0.600	0.850	0.500	0.420	0.110	0.450	0.850	22-19 AWG
KM106	3	1.250	0.700	1.150	0.600	0.580	0.130	0.500	1.150	22-19 AWG

Part	FIG.	LENGTH	WIDTH	THICK	DIA.	X	Y
VTM100	4	0.750	0.425	0.385	0.125	0.600	0.250
VTM120	5	1.000	0.600	0.510	1.200	0.800	0.400
VTM160	5	1.100	0.800	0.710	1.600	0.900	0.600
VTM254	5	1.400	0.900	0.810	2.540	1.200	0.700
VTM280	5	1.700	1.100	1.010	2.800	1.500	0.900

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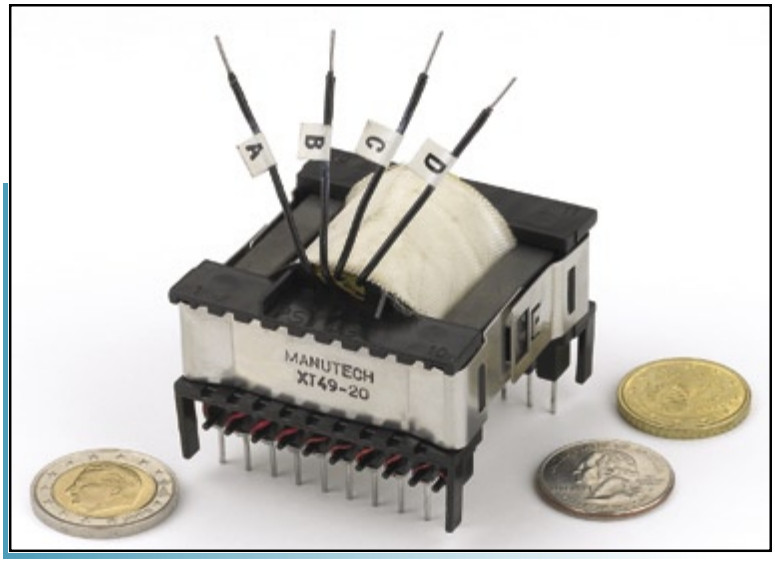
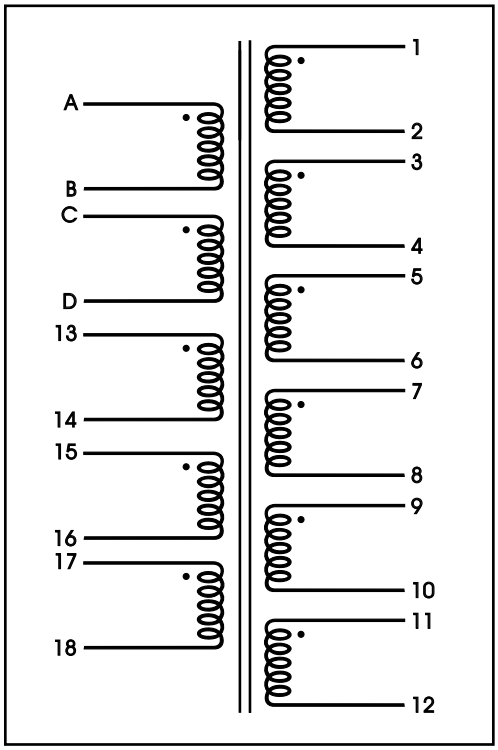
ETD, Power Transformers

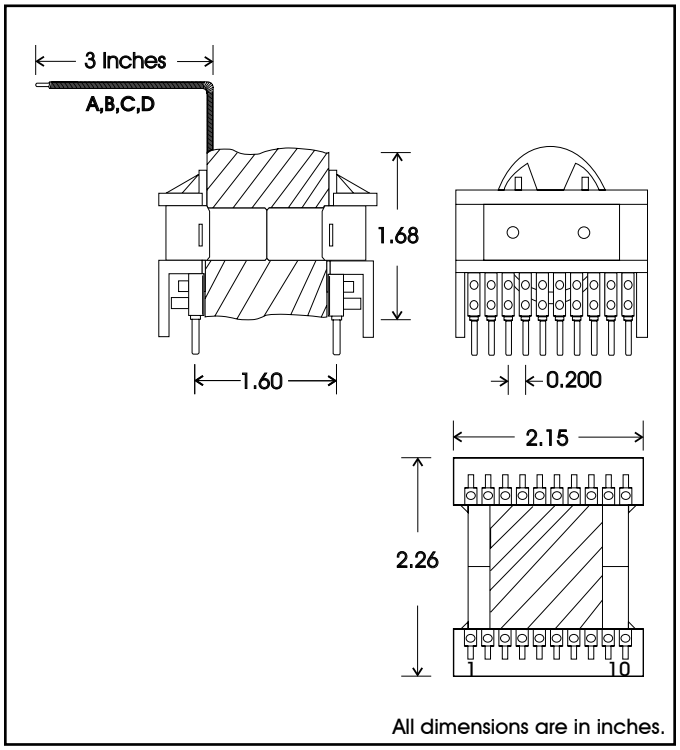


Features

- Voltage input 72 Volts.
- 240 Watts output.
- Outputs from 3 to 24 volts.
- UL and VDE standard.
- Custom designs available.
- Primary Inductance 260 μH.

Terminal #	A to D	1 to 2	3 to 4	5 to 6	7 to 8	9 to 10	11 to 12	13 to 14	15 to 16	17 to 18
Voltage	72.0	12.0	12.00	24.0	24.00	6.0	3.2	4.8	5.60	6.0
Resistance	0.1	0.0	0.02	0.1	0.05	0.1	0.4	0.3	0.12	0.1





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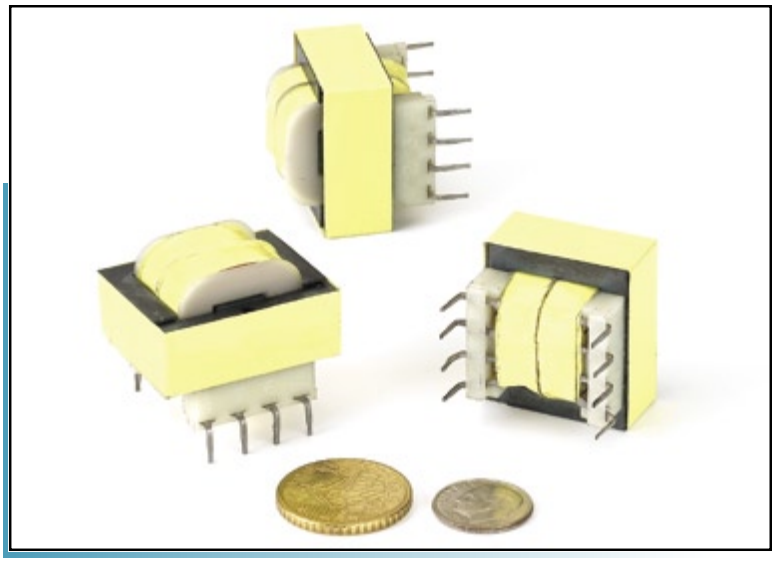
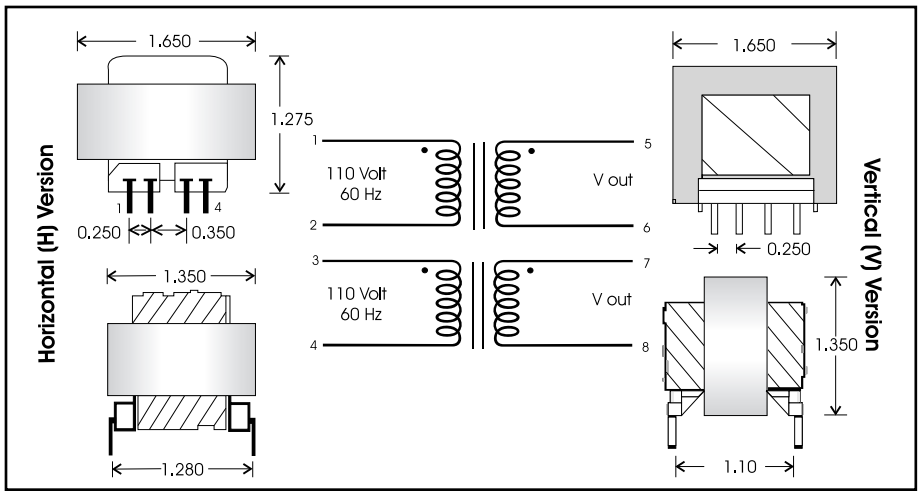
50/60 Hz Power Transformers



Features

- Ideal for PCB plug in.
- Two models with same electrical specifications.
- Steel laminations in vertical (V) or horizontal (H) position.
- UL and international standards.



All dimensions are in inches.

	Secondary RMS Rating			
Manutech Part Number	Series Connected V Out	Series Connected Amps	Parallel Connected V Out	Parallel Connected Amps
MN605-10	10.00	1.00	5	2.00
MN605-12	12.00	0.80	6	1.60
MN605-16	16.00	0.62	8	1.25
MN605-20	20.00	0.50	10	1.00
MN605-24	24.00	0.42	12	0.84
MN605-28	28.00	0.36	14	0.72
MN605-36	36.00	0.28	18	0.56

Note:

1. When ordering, please add "V" for Vertical or "H" for Horizontal at the end of the part number to indicate your preferred position of steel laminations.

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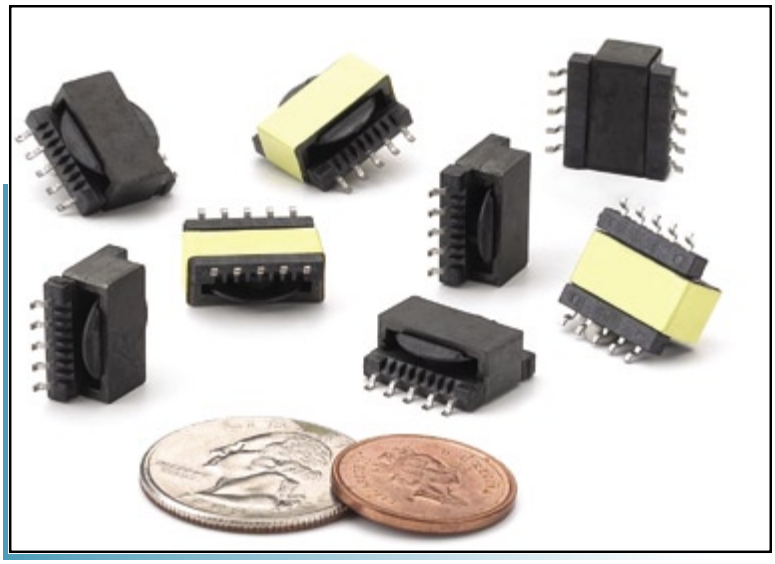
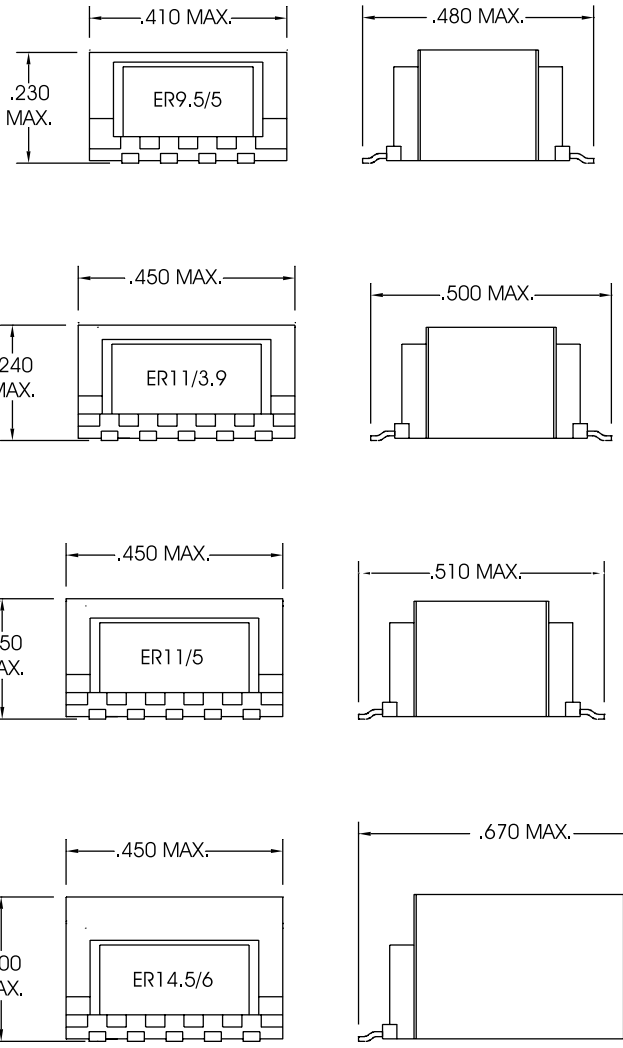
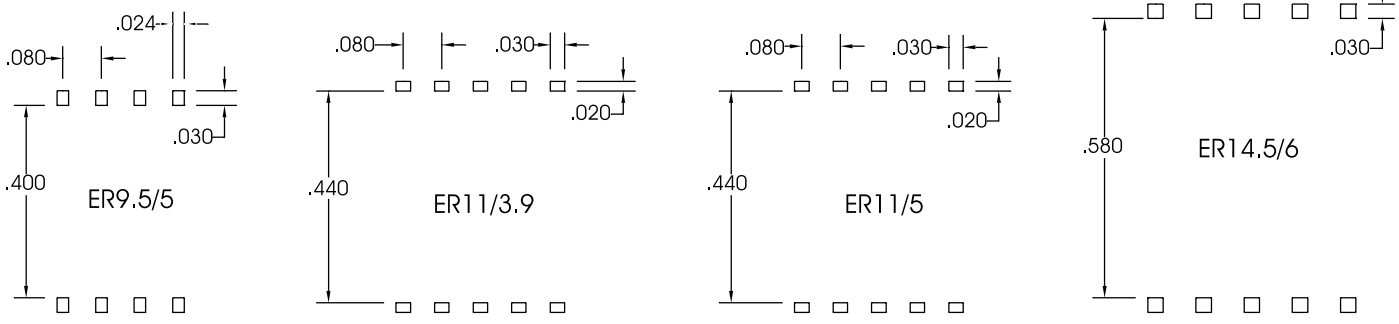
ER, Standard Custom Packages





Applications

- Audio
- Pulse
- Switchmode
- Wideband
- Surface Mount



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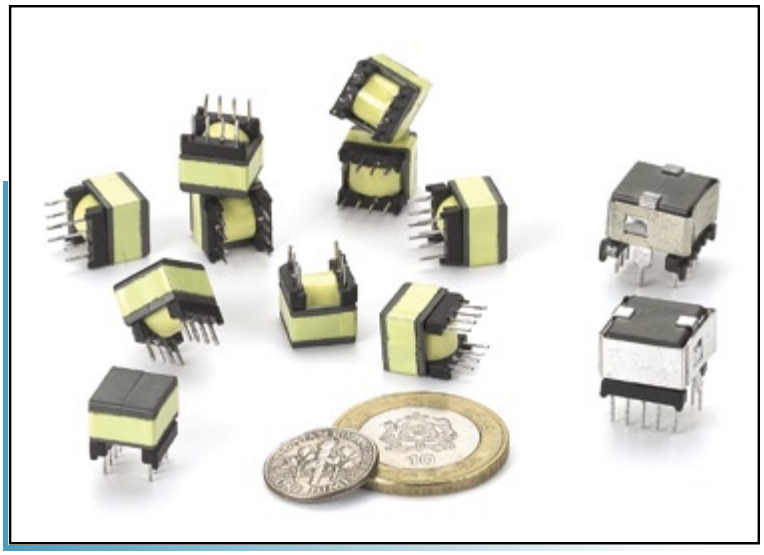
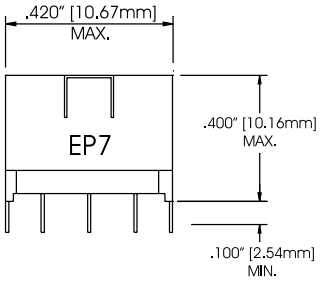
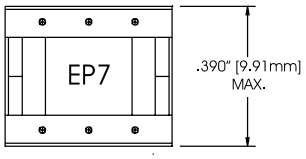
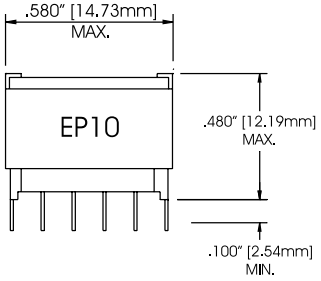
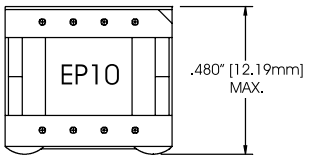
EP, Standard Custom Packages





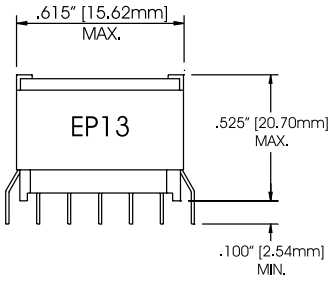


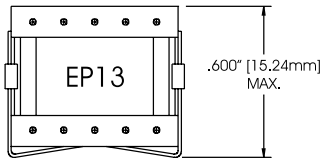


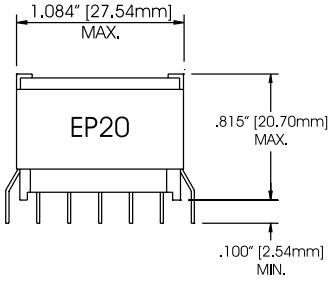


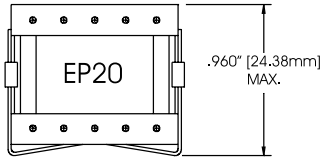
Applications

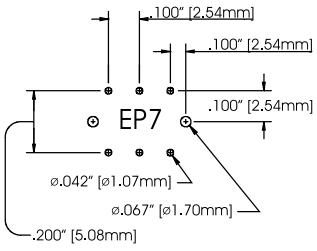
- Audio
- Pulse
- T1
- ADSL
- Switchmode
- Wideband

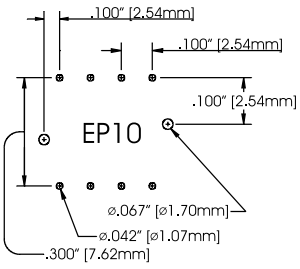


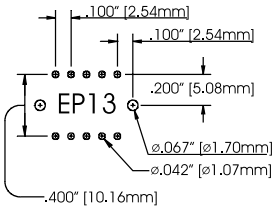


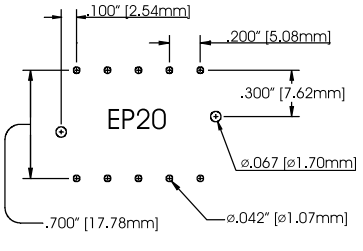












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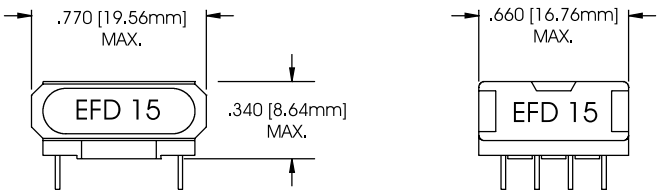
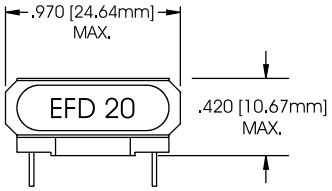
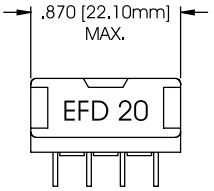
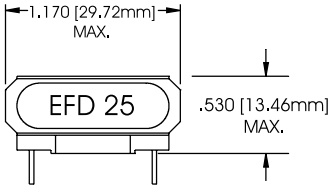
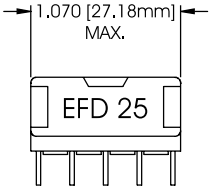
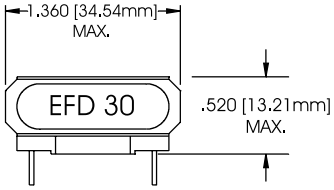


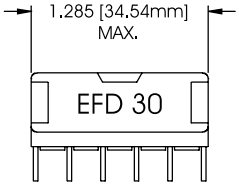






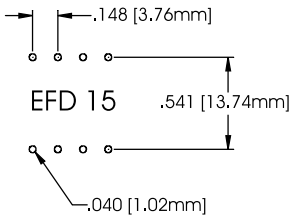


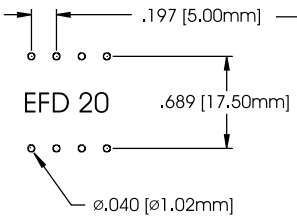


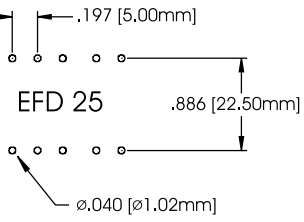


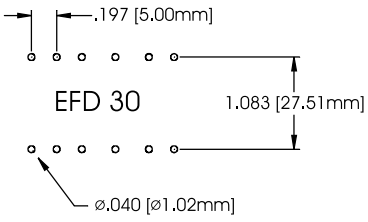
Applications

- Standard packages for custom made transformers.
- Applications include switchmode transformers and inductors.





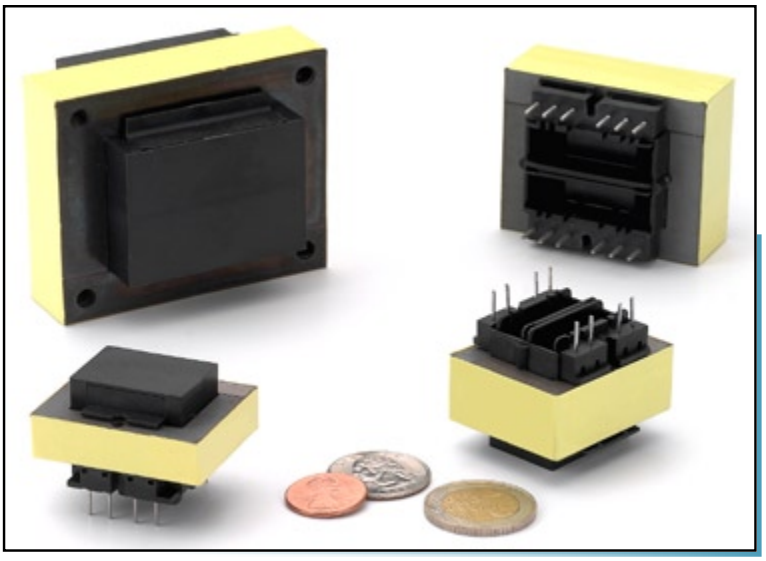




All specifications are subject to change without notice • Can be customized to your specific application

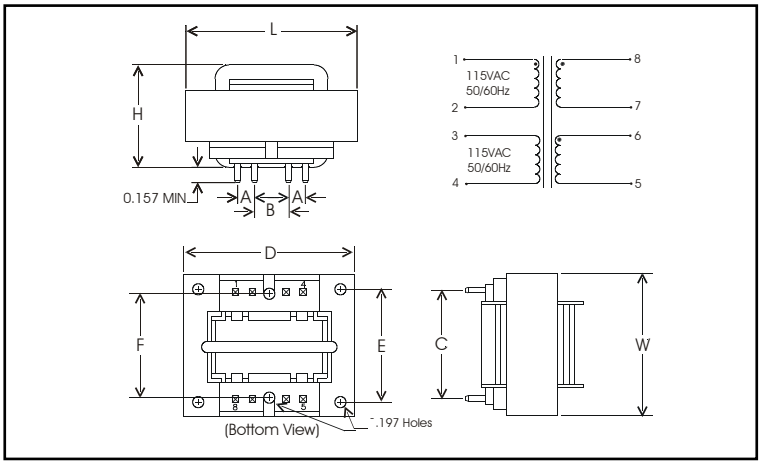
International 50/60 Hz Transformers

Manutech Part Number	Power Watts	Secondaries in Series		Secondaries in Parallel	
		Volt	Amp	Volt	Amp
MN603-2.5-10	2.5	10	0.25	5	0.50
MN603-5-10	5	10	0.50	5	1.00
MN603-10-10	10	10	1.00	5	2.00
MN603-20-10	20	10	2.00	5	4.00
MN603-30-10	30	10	3.00	5	6.00
MN603-56-10	56	10	5.60	5	11.20
MN603-2.5-12	2.5	12.6	0.20	6.3	0.40
MN603-5-12	5	12.6	0.40	6.3	0.80
MN603-10-12	10	12.6	0.80	6.3	1.60
MN603-20-12	20	12.6	1.60	6.3	3.20
MN603-30-12	30	12.6	2.40	6.3	4.80
MN603-56-12	56	12.6	4.40	6.3	8.80
MN603-2.5-16	2.5	16	0.15	8	0.30
MN603-5-16	5	16	0.31	8	0.62
MN603-10-16	10	16	0.62	8	1.25
MN603-20-16	20	16	1.25	8	2.50
MN603-30-16	30	16	1.90	8	3.80
MN603-56-16	56	16	3.50	8	7.00
MN603-2.5-20	2.5	20	0.12	10	0.24
MN603-5-20	5	20	0.25	10	0.50
MN603-10-20	10	20	0.50	10	1.00
MN603-20-20	20	20	1.00	10	2.00
MN603-30-20	30	20	1.50	10	3.00
MN603-56-20	56	20	2.80	10	5.80
MN603-2.5-24	2.5	24	0.10	12	0.20
MN603-5-24	5	24	0.21	12	0.42
MN603-10-24	10	24	0.42	12	0.84
MN603-20-24	20	24	0.83	12	1.66
MN603-30-24	30	24	1.25	12	2.50
MN603-56-24	56	24	2.33	12	4.66
MN603-2.5-28	2.5	28	0.09	14	0.18
MN603-5-28	5	28	0.18	14	0.36
MN603-10-28	10	28	0.36	14	0.72
MN603-20-28	20	28	0.72	14	1.44
MN603-30-28	30	28	1.06	14	2.12
MN603-56-28	56	28	2.00	14	4.00
MN603-2.5-36	2.5	36	0.07	18	0.14
MN603-5-36	5	36	0.14	18	0.28
MN603-10-36	10	36	0.28	18	0.56
MN603-20-36	20	36	0.56	18	1.12
MN603-30-36	30	36	0.82	18	1.64
MN603-56-36	56	36	1.56	18	3.12



Features

- Power from 2.5 Watts to 56 Watts.
- Shrouded construction over windings.
- Meets UL, CSA, IEC, and VDE standards.
- 4000 Volt isolation.
- Input 115 Volt, 50 or 60 Hz.
- Other values are available.



All dimensions are in inches										
Power	L	W	H	A	B	C	D	E	F	Weight (lb)
2.5	1.63	1.32	1.12	0.20	0.25	1.00	-	-	1.06	0.25
5	1.63	1.32	1.37	0.20	0.40	1.00	-	-	1.06	0.37
10	1.88	1.57	1.63	0.20	0.40	1.14	-	-	1.26	0.53
20	2.25	1.88	1.63	0.40	0.40	1.46	-	-	1.50	0.90
30	2.63	2.19	1.83	0.55	0.28	1.68	2.20	1.73	-	1.15
56	3.00	2.50	1.83	0.60	0.30	1.90	2.20	2.00	-	1.70

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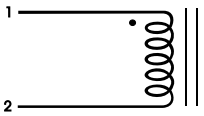
Features

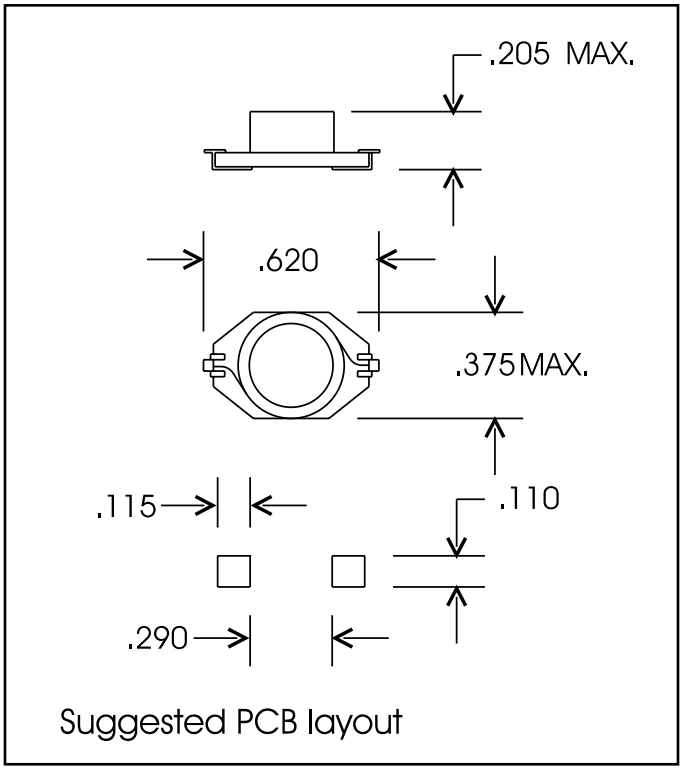
- Shielded inductor with minimum EMI
- Minimum power loss
- Non standard values available
- Low DC resistance
- Flat top for SMT operations

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.

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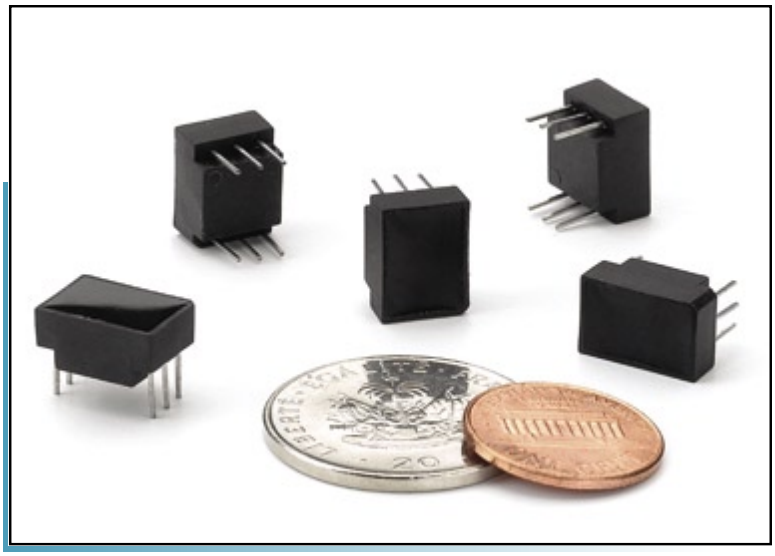
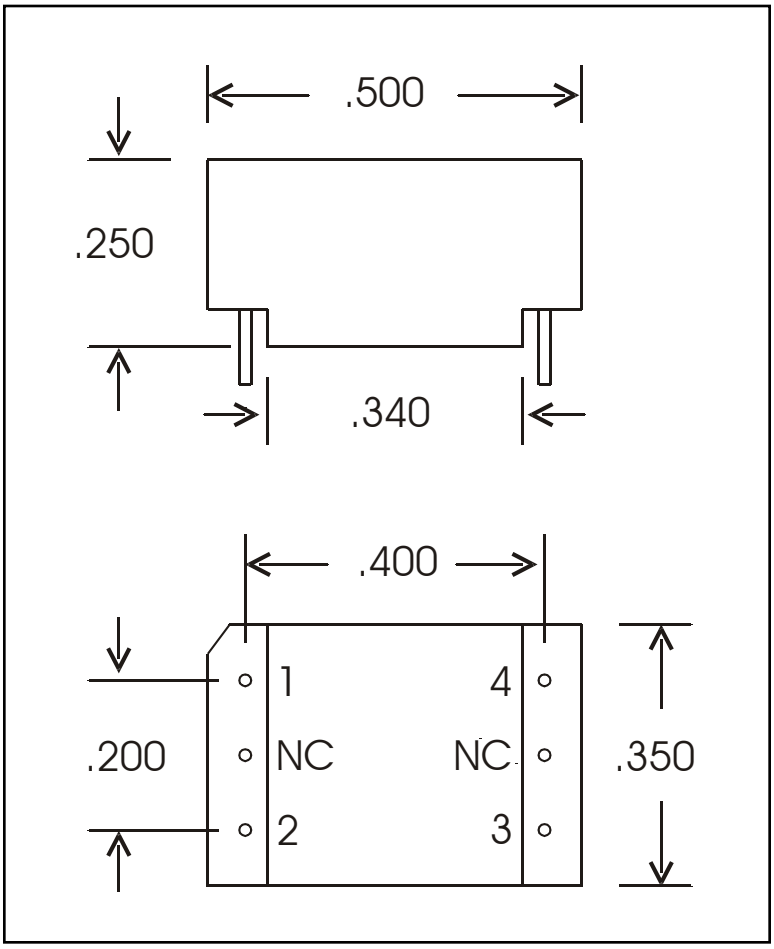
Pulse Transformers

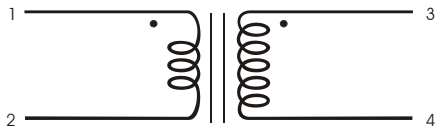


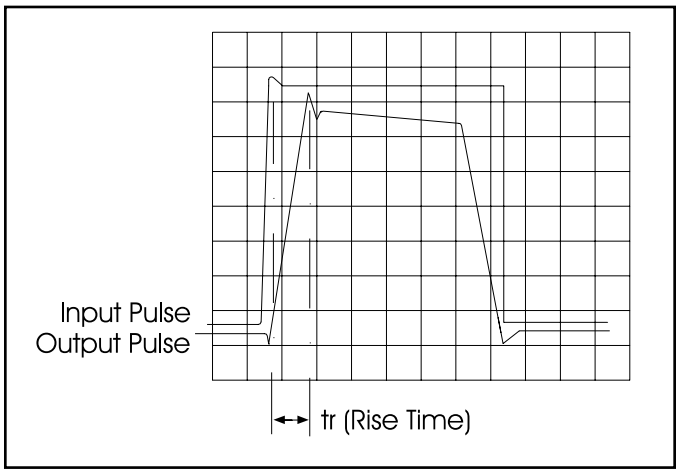
Features

- Turns ratio primary to secondary 1: 1.5
- DC resistance between 1 to 2 is 1.5 Ohm max.
- Inductance L between 3 to 4 is 7 mH min.
- Leakage Inductance between 1 to 2 with 3 and 4 shorted is 6 μH max.
- Common mode rejection between primary and secondary is 50 dB minimum.
- The rise time is less than 90 nano-seconds.
- Custom designs and values are available.



All dimensions are in inches.





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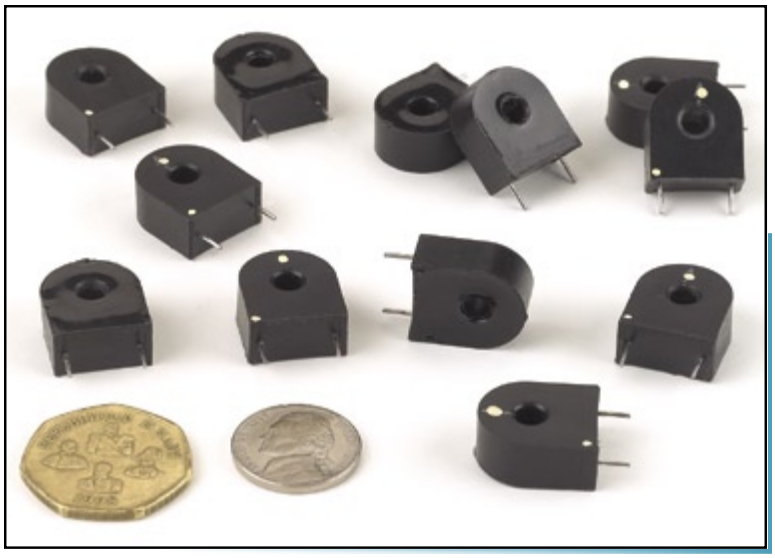
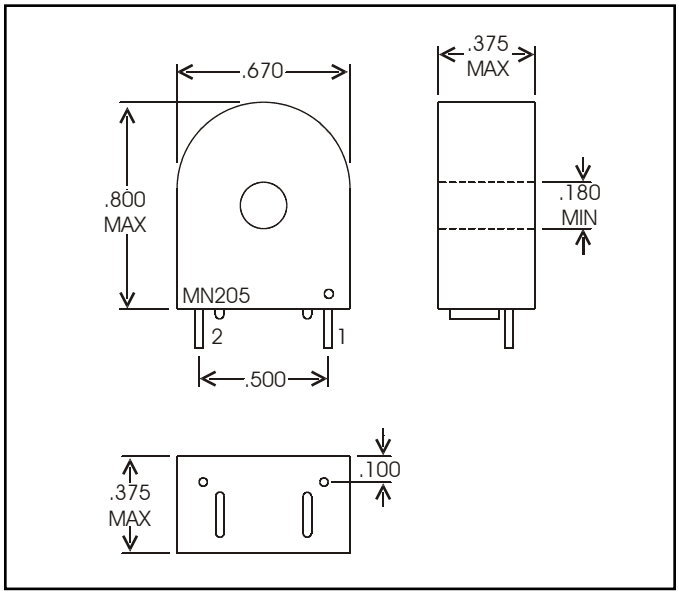
Features

- From 0.1 to 5 Amps @ 50 Hz
- Ultra sensitive for low current measurement.
- UL and VDE recognized class B material.
- Other current rating and specifications available.
- From 50 Hz to 400 Hz.

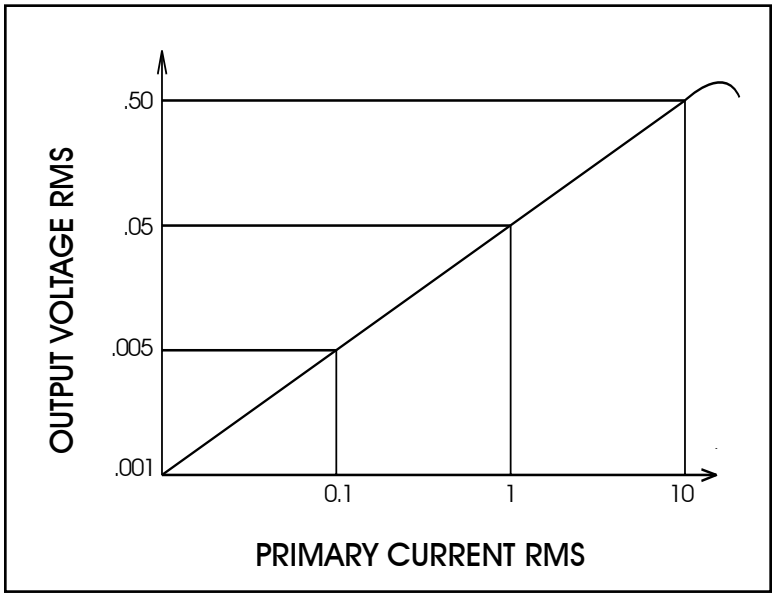


Specifications

- Secondary 2000 turns.
- Winding DCR: 150 Ohms max.
- Suggested burden resistor: 100 Ohms.
- AC output voltage proportional to AC current input.
- Output at 100 Ohms: 50 mV/Amp.
- Various ranges of output are achievable by using different burden resistors.



All dimensions are in inches.



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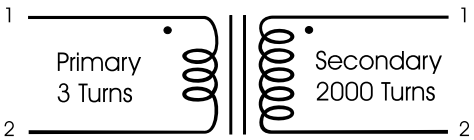
AC Current Sense Transformers

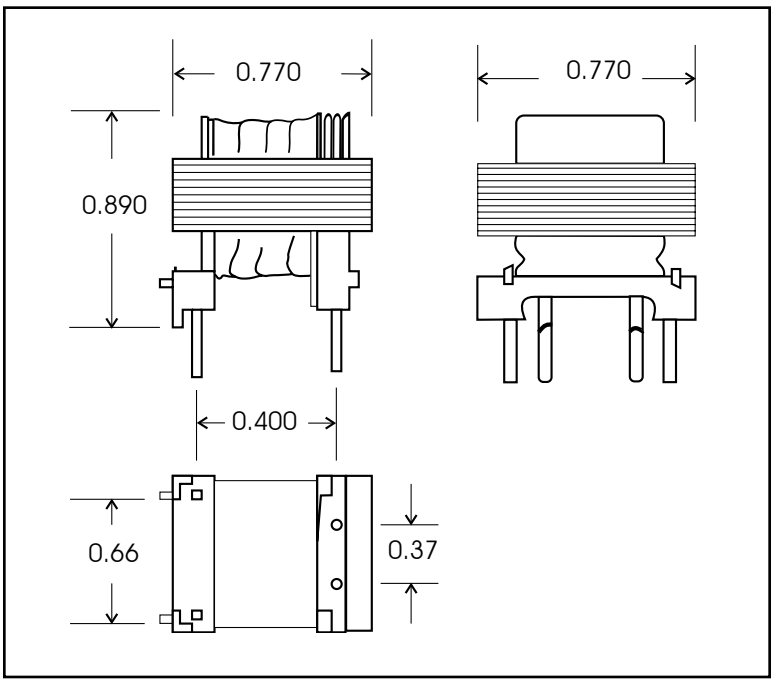
Features

- Current sense transformer from 0.01 to 30 Amps RMS
- Frequency range from 50 Hz to 400 Hz
- Meets IEC 950 standards
- Dielectric strength 3000 volts

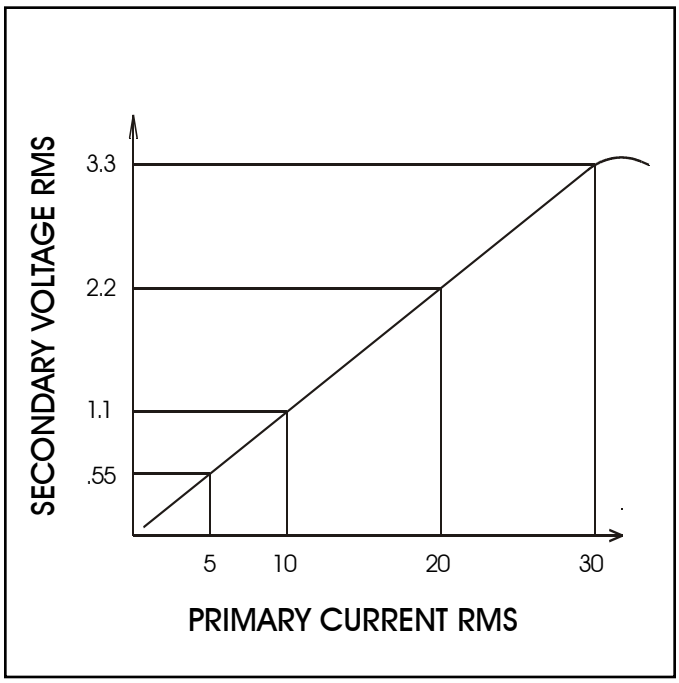
Specifications

- Turns ratio: Primary to secondary 3:2000.
- Primary DCR: 440 Micro-Ohms max.
- Secondary DCR: 300 Ohms max.
- Suggested burden resistor: 100 Ohms.
- Output 110 mV/Amps.





All dimensions are in inches.



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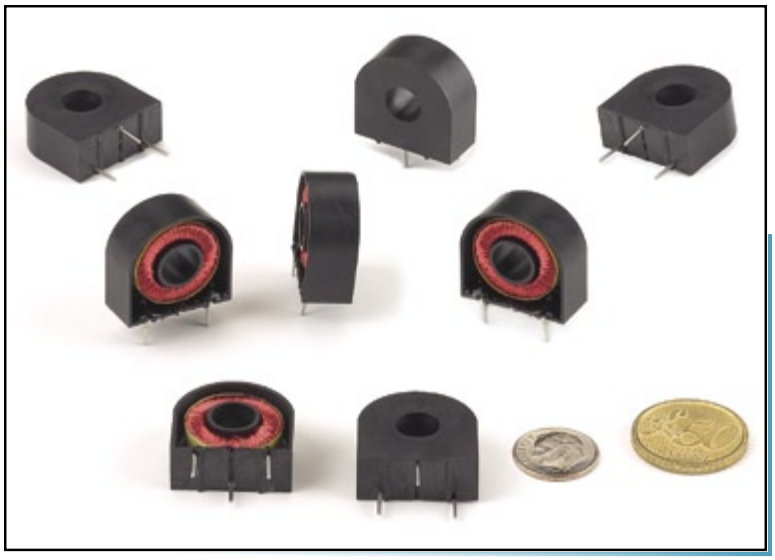
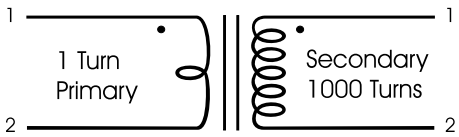
Features

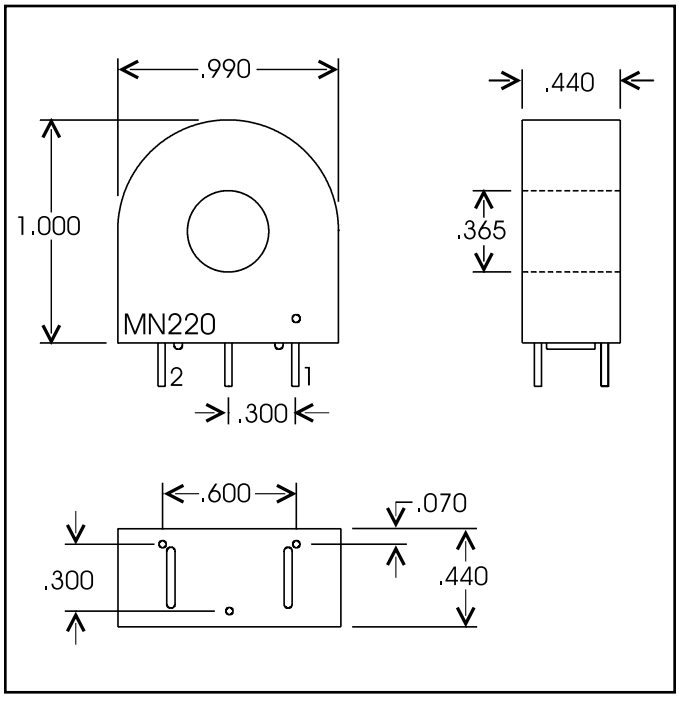
- 1 to 20 Amps @ 50 Hz
- UL and VDE recognized class B material.
- Hi-pot 4000 Volts RMS
- Printed circuit board mounting terminals.
- Other current rating and specifications available.



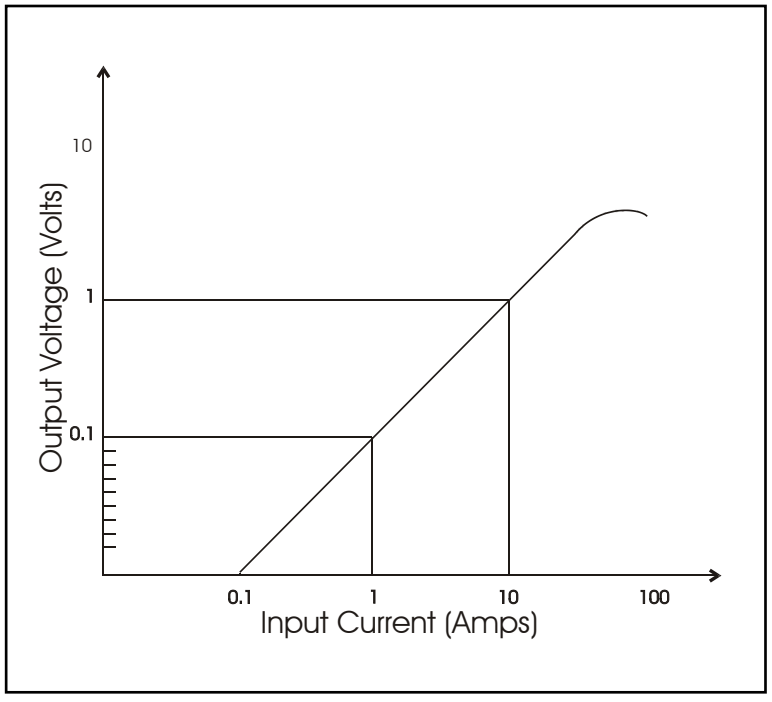
Specifications

- From 50 Hz to 400 Hz.
- Turns ratio: Primary to secondary 1:1000
- Winding DCR: 40 Ohms Max.
- Suggested burden resistor: 100 Ohms.
- AC output voltage proportional to AC current input.
- Output at 100 Ohms: 100 mV/Amp.
- Various ranges of output are achievable by using different burden resistors.





All dimensions are in inches.



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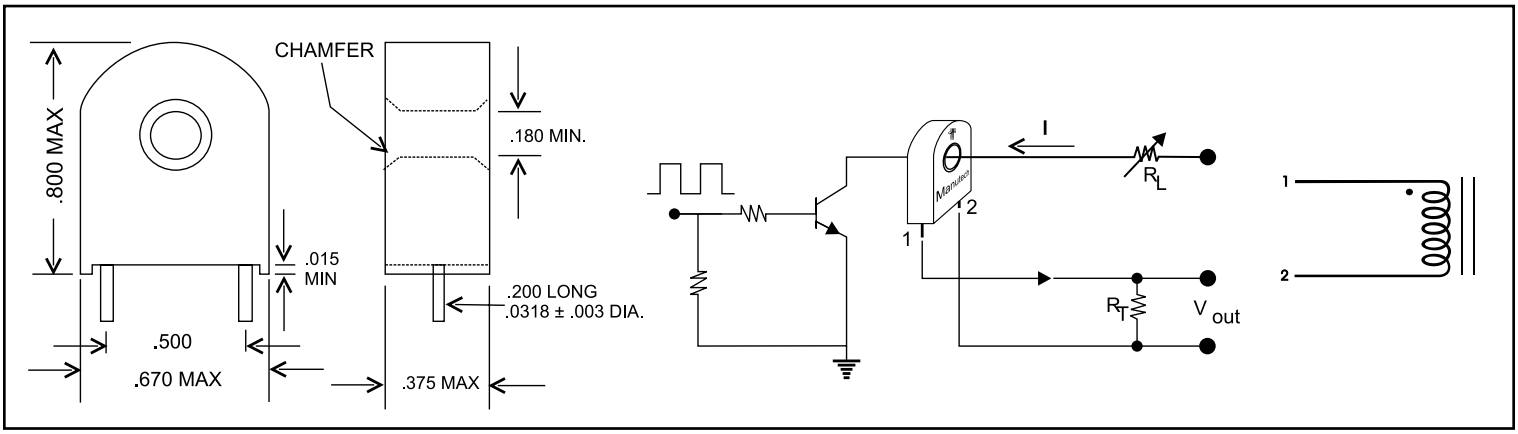
MN240 High Frequency Current Sense Inductors

Features

- 50, 100, 200, 400 and 1000 Turns.
- From 1 KHz to 150 KHz.
- Turns ratio accuracy to 1%.
- Dielectric strength 3000 VRMS secondary to 0.180 diameter bare wire through the center.
- Ideal for switch mode power supplies.
- For 20 KHz to 20 MHz special order available

Mechanical Specifications

- Molded case using 94 VO material.
- Center hole 0.18 min.
- Complies with class B insulation requirements.



All dimensions are in inches.

Manutech Part Number	Number of Turns	Inductance Minimum mH	DCR Maximum Ohms
MN240-50	50	5	0.5
MN240-100	100	20	1.4
MN240-200	200	80	4.5
MN240-400	400	300	20.0
MN240-1000	1000	2000	80.0

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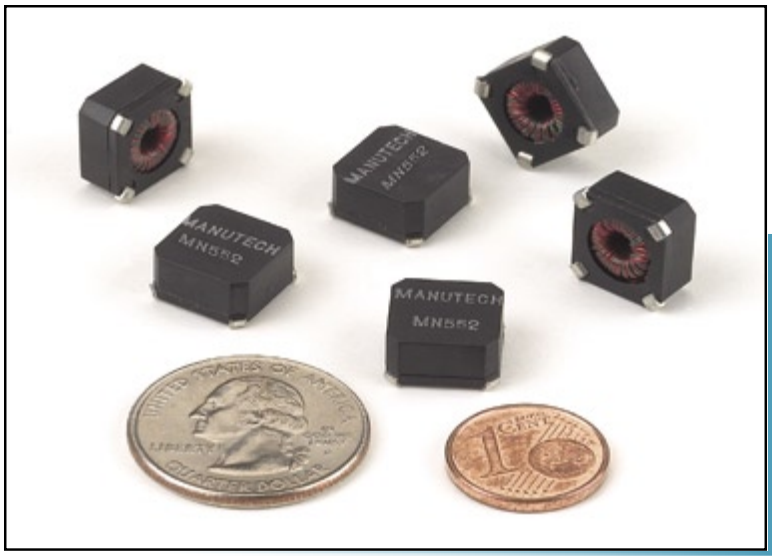
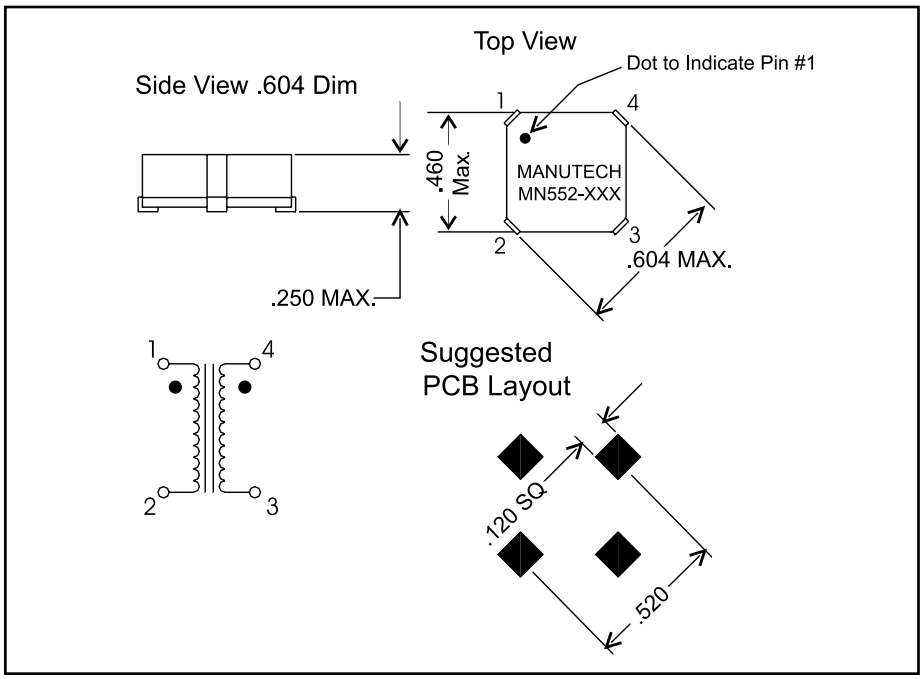
Features

- Reduce AC interference.
- Reduce in-phase noise signals.
- Reduce EMI in-line power.
- Lead pads coplanarity 0.05 mm max.
- UL94V0 Header Material.





All dimensions are in inches.

Manutech Part Number	Inductance @ 10 kHz µH ±30%	DCR Ω Max	Current Rating ADC	Leakage Inductance µH Ref	Interwinding Capacitance pF Ref.
MN552-100	100	0.035	3.0	2.2	2.6
MN552-250	250	0.055	2.4	4.5	4.0
MN552-500	500	0.095	1.8	7.0	5.2
MN552-750	750	0.150	1.5	11.0	6.0
MN552-1000	1,000	0.210	1.2	13.0	7.0

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

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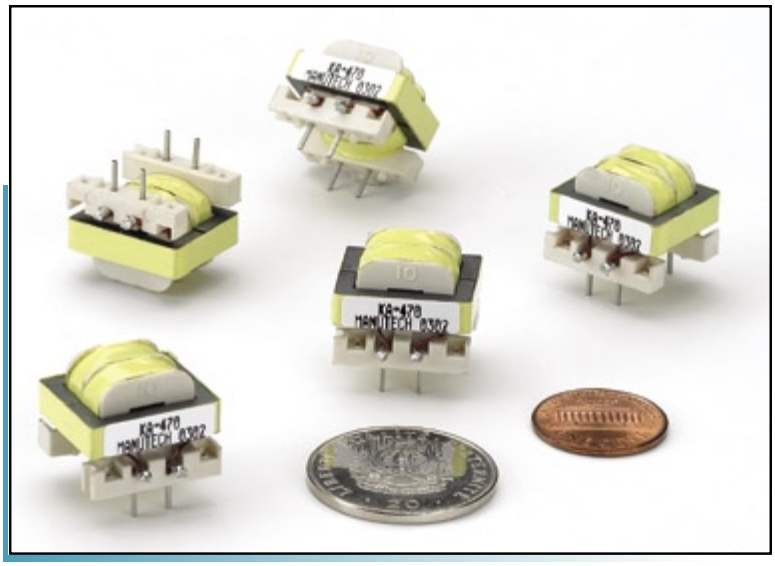
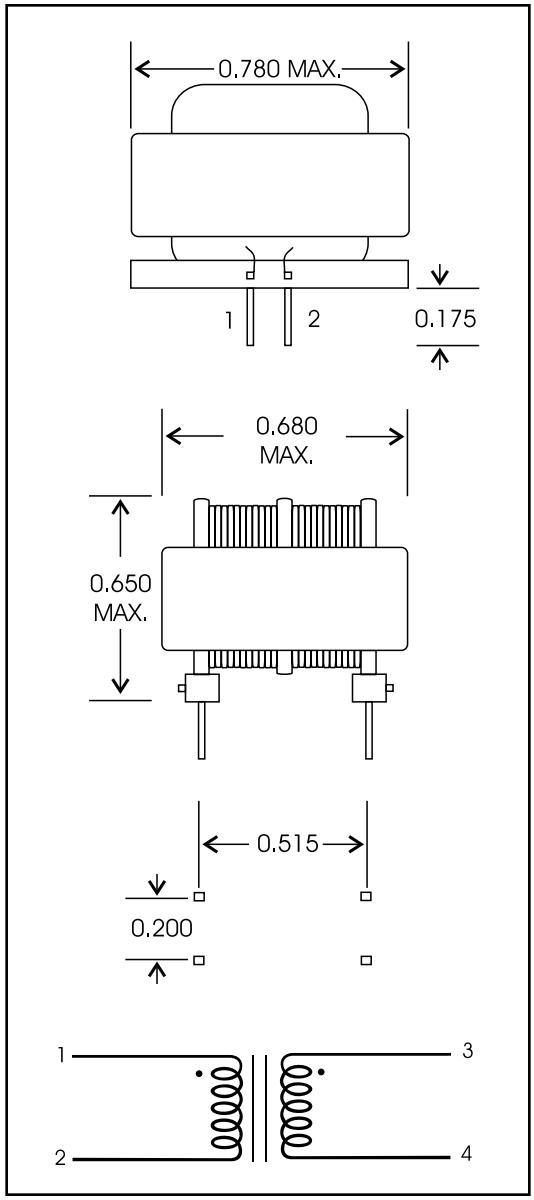
Common Mode Transformers



Features

- Windings are balanced to within 1%.
- Winding to winding dielectric strength 2500 VAC.
- Inductance is measured at 1 KHz and initial permeability.

Manutech Part Number	Inductance +/-20% L=μH	DCR Res. Ohms	AC Current Amps	Leakage Inductance μH
MN606-100	100	0.015	2.3	2.6
MN606-120	120	0.015	2.3	3.4
MN606-150	150	0.016	2.3	3.9
MN606-180	180	0.019	2.3	4.5
MN606-220	220	0.021	2.3	5.6
MN606-270	270	0.028	2.1	6.1
MN606-330	330	0.031	2.0	7.6
MN606-470	470	0.038	2.0	11.0
MN606-560	560	0.059	1.8	13.0
MN606-680	680	0.062	1.6	16.0
MN606-820	820	0.068	1.3	19.0
MN606-1000	1,000	0.081	1.2	24.0
MN606-1200	1,200	0.089	1.0	27.0
MN606-1500	1,500	0.115	1.0	32.0
MN606-1800	1,800	0.130	1.0	40.0
MN606-2200	2,200	0.176	0.9	47.0
MN606-2700	2,700	0.192	0.8	60.0
MN606-3300	3,300	0.270	0.6	71.0
MN606-3800	3,800	0.291	0.5	87.0
MN606-4700	4,700	0.354	0.4	107.0
MN606-5600	5,600	0.391	0.4	122.0
MN606-6800	6,800	0.448	0.4	144.0
MN606-8200	8,200	0.639	0.3	181.0
MN606-10000	10,000	0.718	0.3	221.0
MN606-12000	12,000	0.910	0.2	260.0
MN606-15000	15,000	1.000	0.2	331.0
MN606-18000	18,000	1.300	0.1	400.0
MN606-22000	22,000	1.450	0.1	473.0
MN606-27000	27,000	2.100	0.1	615.0
MN606-33000	33,000	2.200	0.1	735.0



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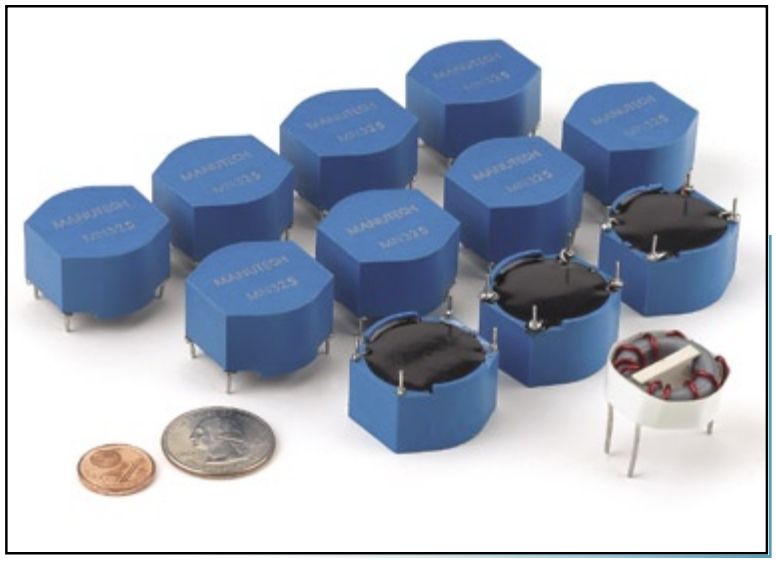
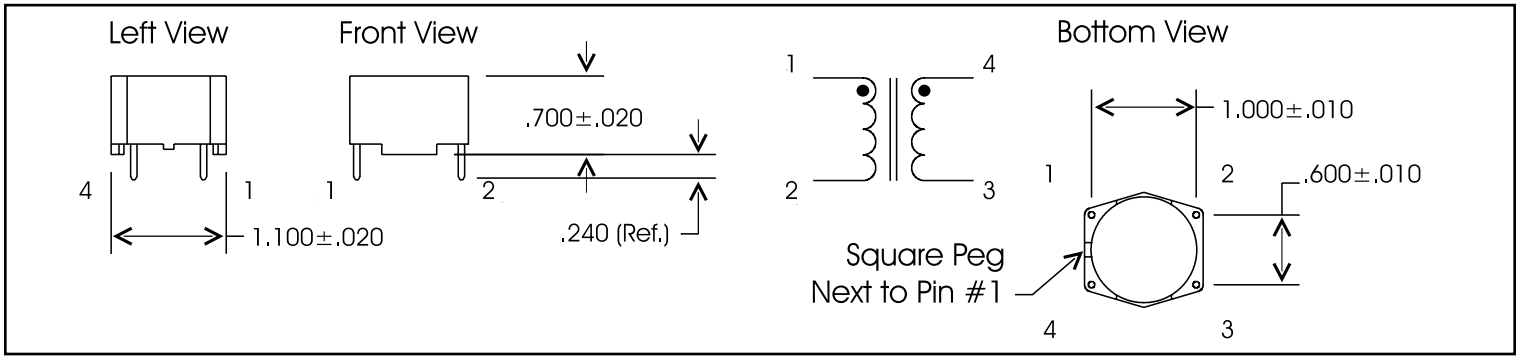
Features

- 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 µH ±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

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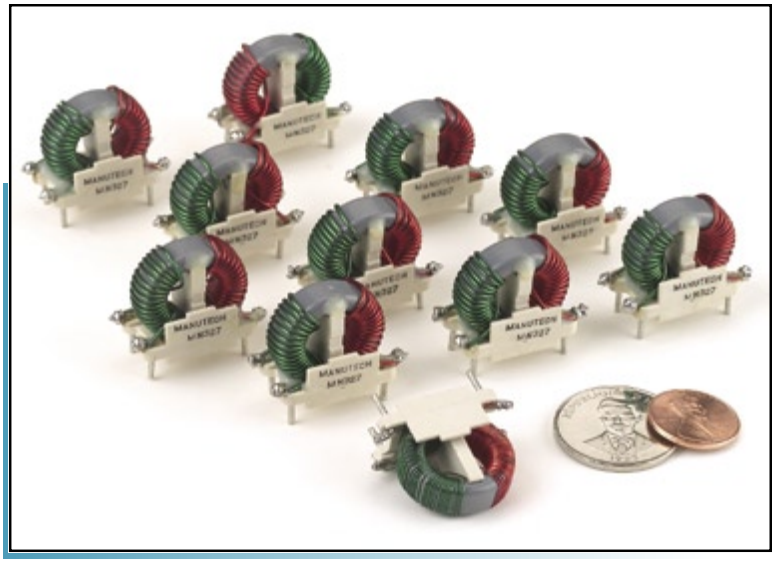
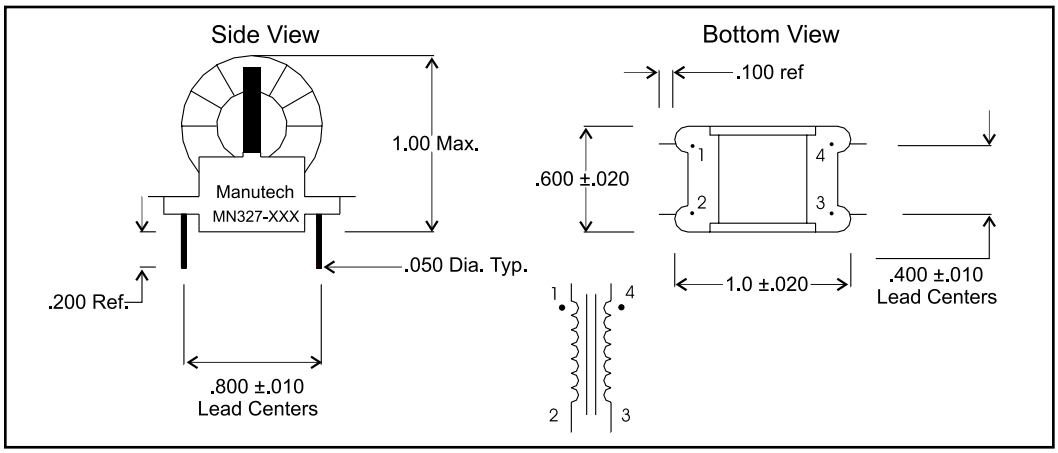
MN327 Common Mode Filter, Vertical Mount



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 µH ±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).

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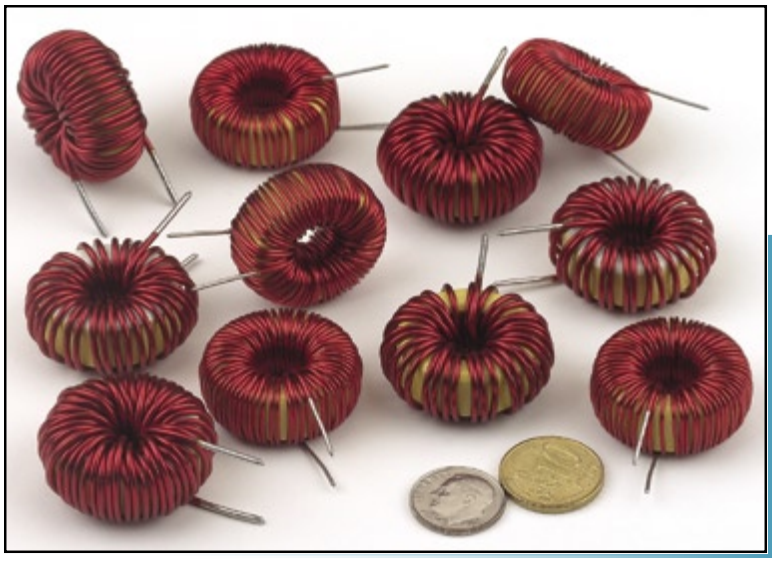
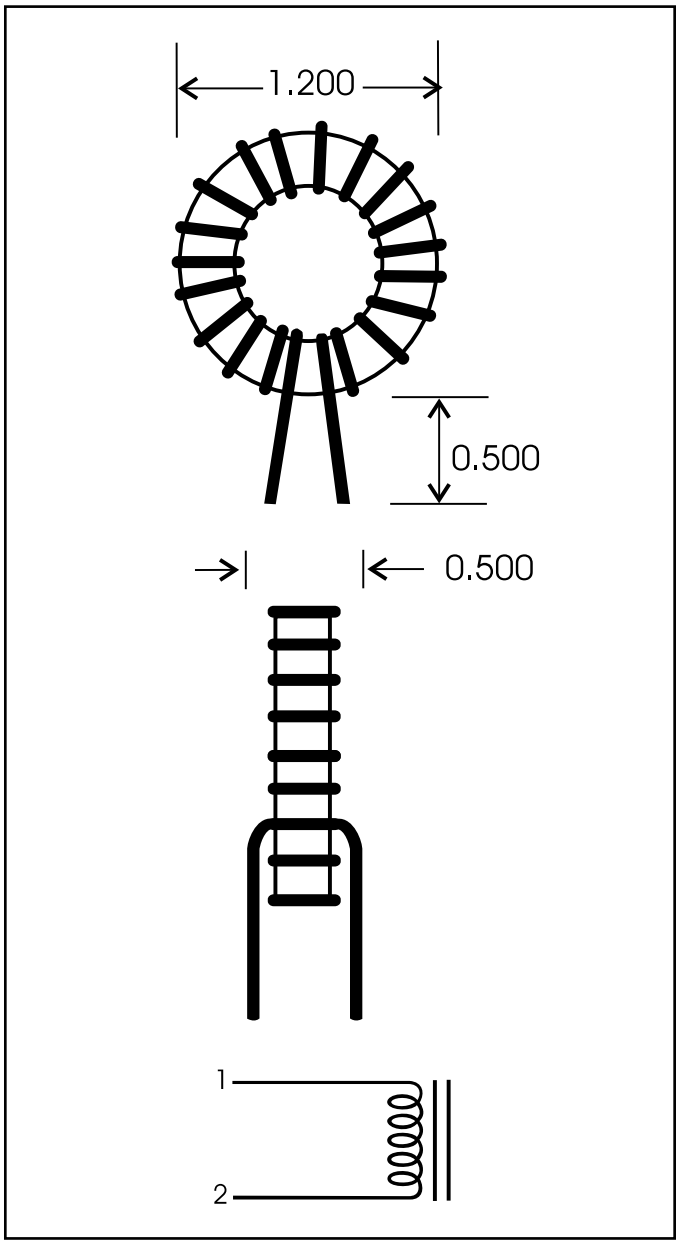
Features

- 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 = µH	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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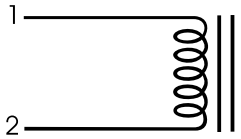
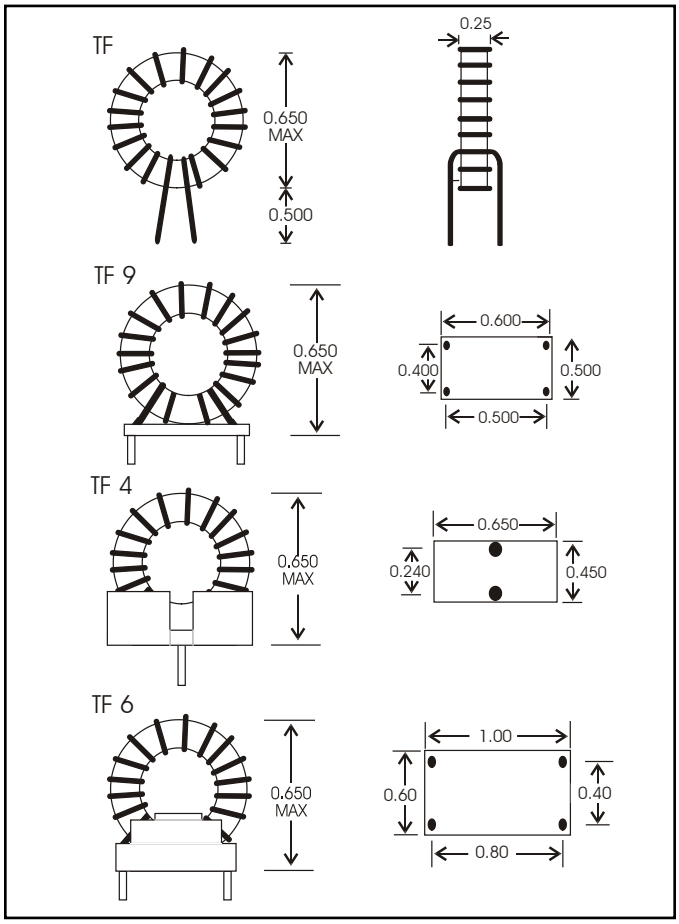
Small Toroidal Inductors

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 ± 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.

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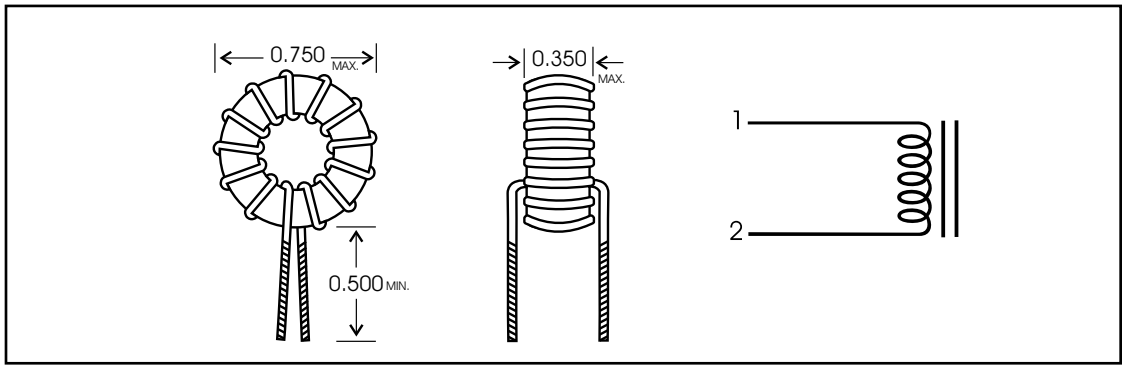
Features

- 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 ± 15%.
- Other tolerances available.



All dimensions are in inches.

Manutech Part Number	Inductance L=μH @ 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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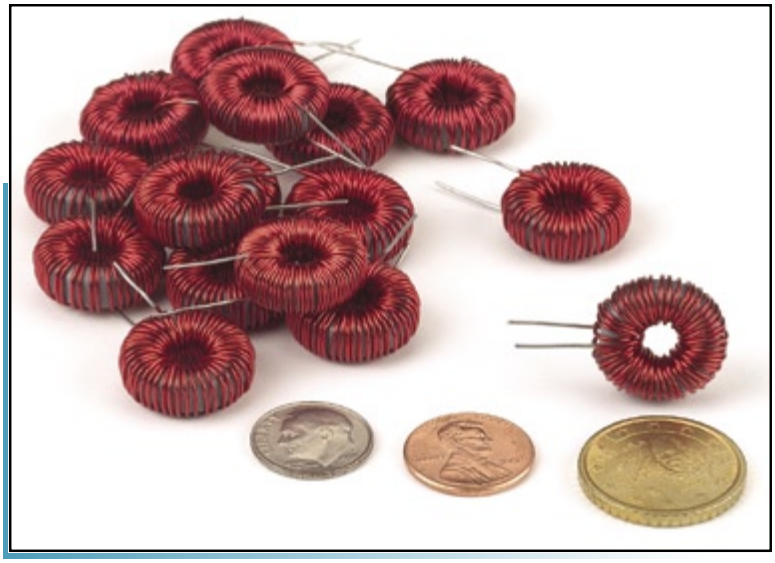
Inductors, Swinging

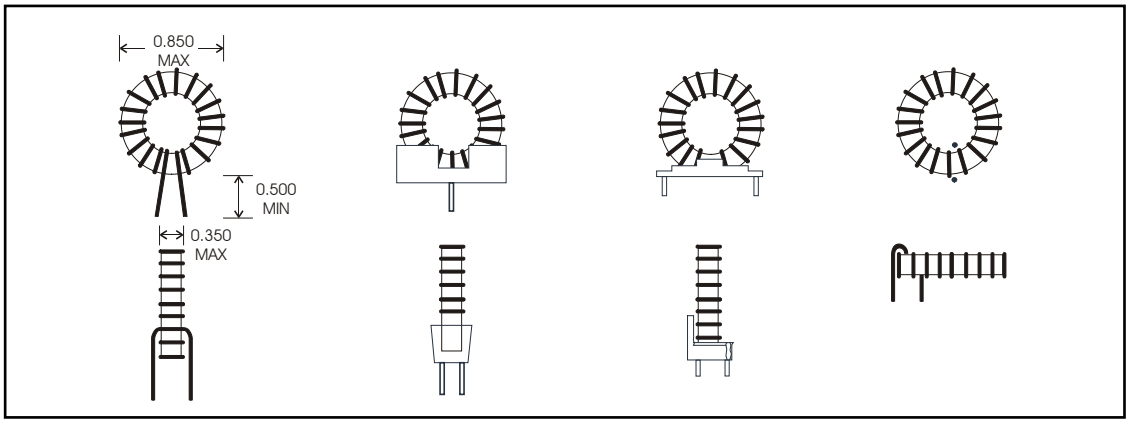


Features

- 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.

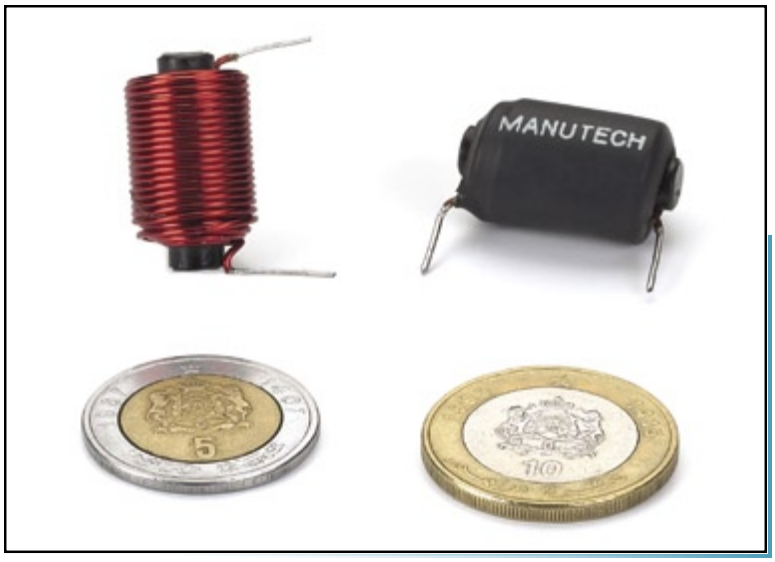
Manutech Part Number	Inductance @ zero DC μH	DC Resistance m Ohm	Rated Current Amps	Incremental Current Drop 10%	Incremental Current Drop 20%	Incremental Current Drop 50%
MN355-15	15	0.015	12.0	4.0	6.0	11.0
MN355-25	25	0.015	10.0	2.7	4.5	9.0
MN355-50	50	0.016	7.5	1.7	3.2	6.8
MN355-70	70	0.040	6.6	1.5	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

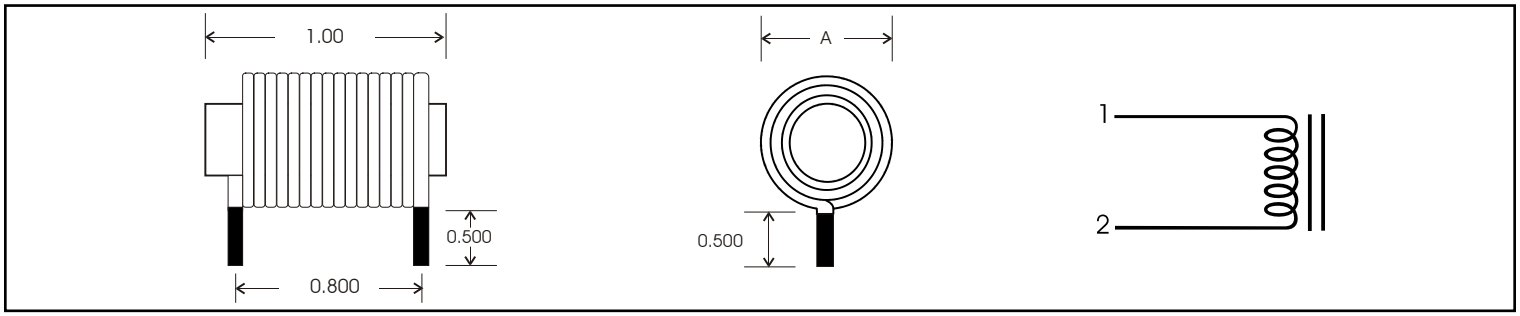
Note: Inductance drops approximately 50% at rated current.

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

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=μH	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

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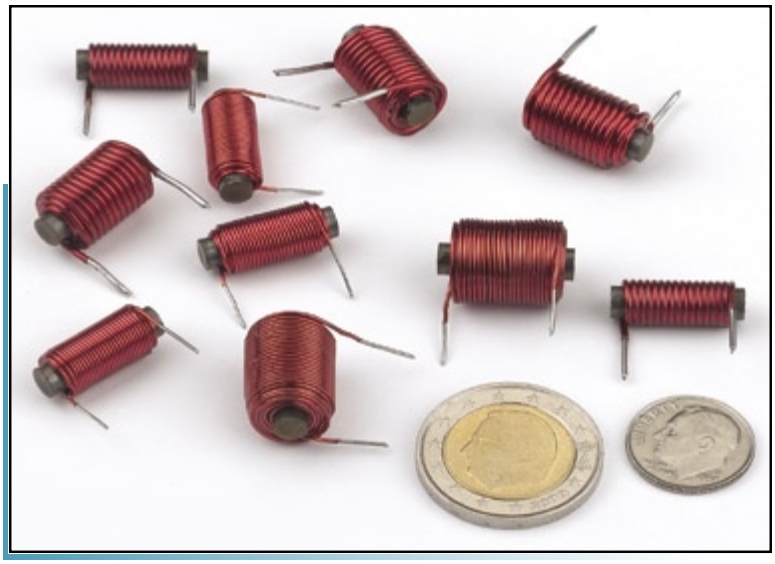
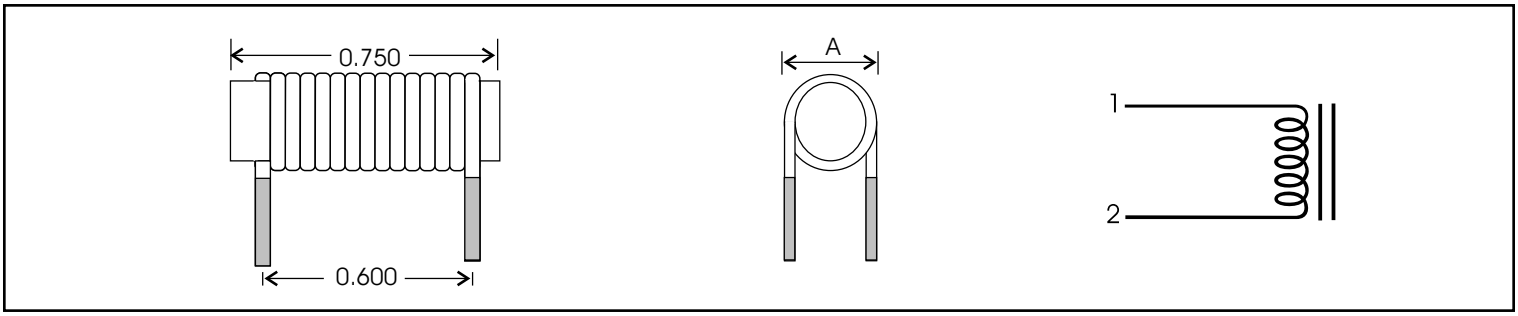
Economy Inductors



Features

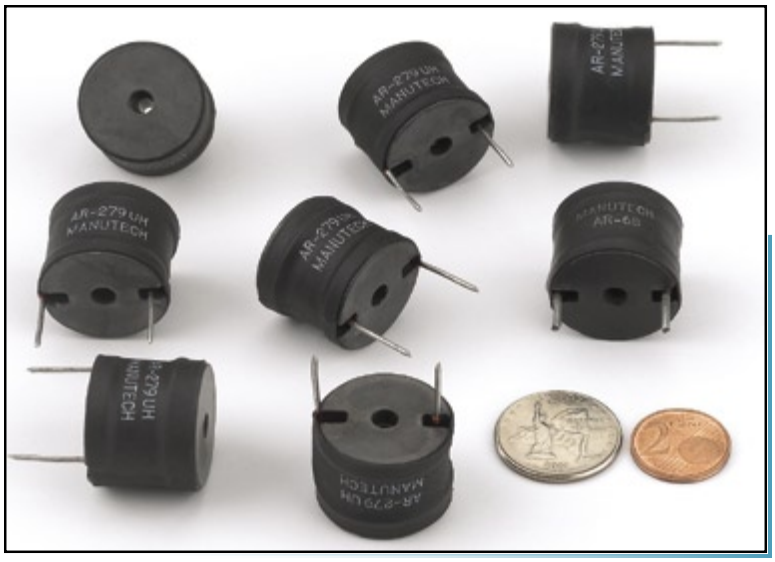
- Radial low cost construction.
- Stable core at RF frequency.
- Non standard values available.
- Shrink tubing over winding optional.



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

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

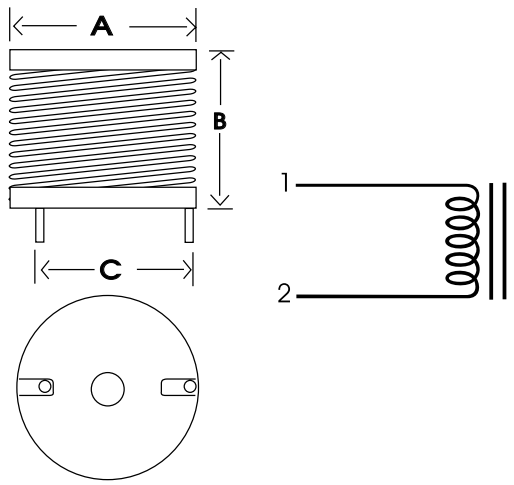


Features

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

All dimensions are in inches

A Max	B Max	C Typical
1.10	0.84	0.79



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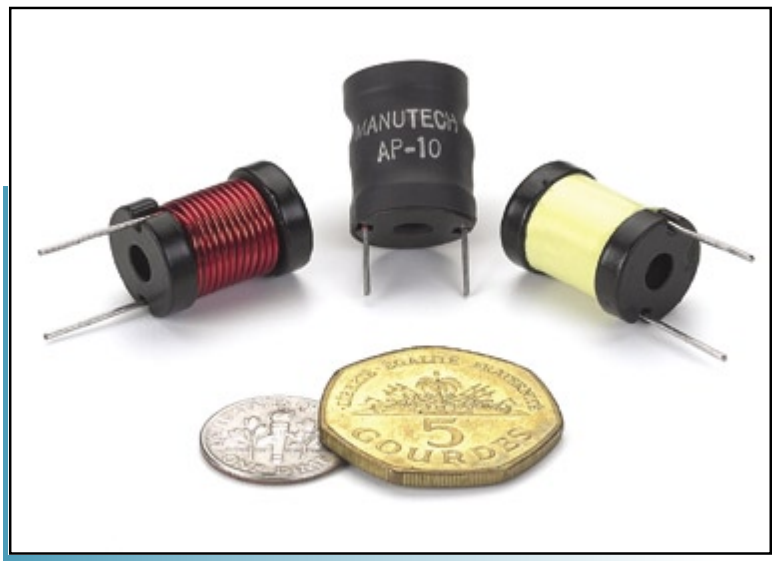
Small Power Inductors

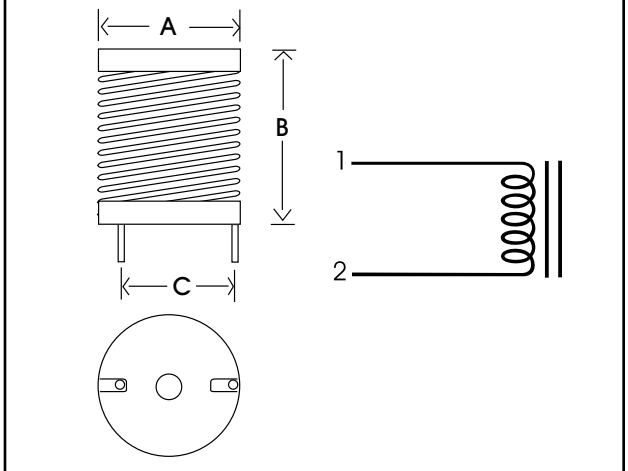


Features

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

All dimensions are in inches

A Max	B Max	C Typical
0.660	0.840	0.55



Manutech Part Number	L @ 1 KHz (µH)	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

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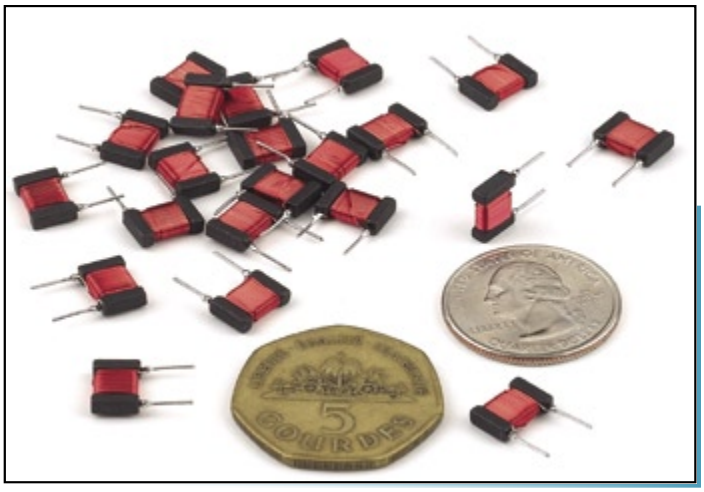
Manutech Part Number	Inductance @ 1 KHz L=μH	Test Freq. (MHz)	Min Q	Max DC Res. (Ohms)	Current DC (Amps)	Sat. Current (Amps)
MN465-1.0	1.0	7.90	37	0.010	2.250	7.00
MN465-1.2	1.2	7.90	39	0.012	1.780	6.00
MN465-1.5	1.5	7.90	33	0.014	1.420	5.00
MN465-1.8	1.8	7.90	37	0.020	1.120	4.80
MN465-2.2	2.2	7.90	38	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

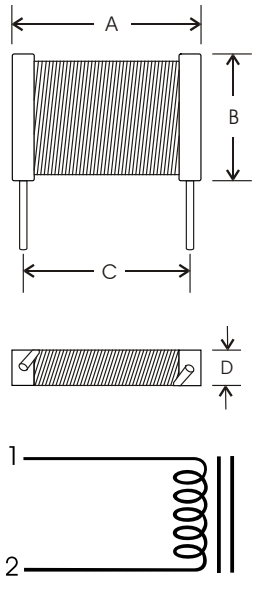


Features

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

All dimensions are in inches

A Max	B Max	C Max	D Max
0.375	0.300	0.300	0.15



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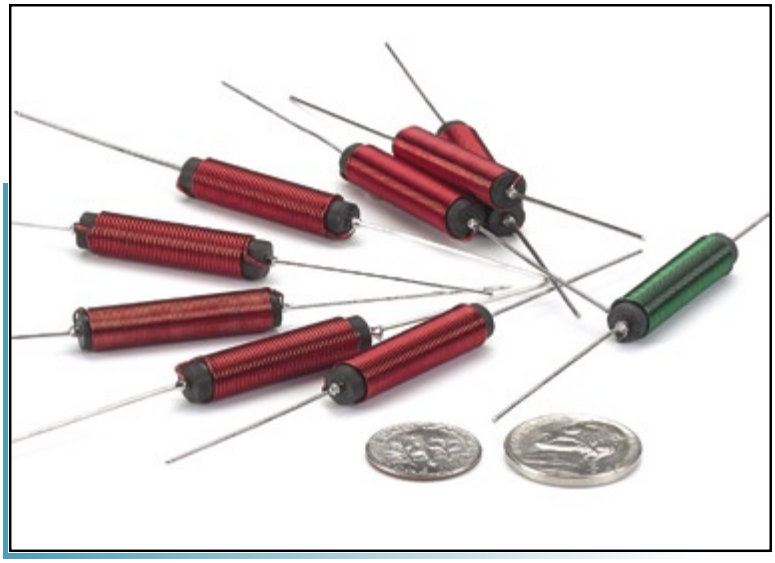
High Current Ferrite Inductors



Features

- High resistivity ferrite core.
- Standard tolerance ± 15%.
- Non-standard values available.
- Easy PCB assembly.

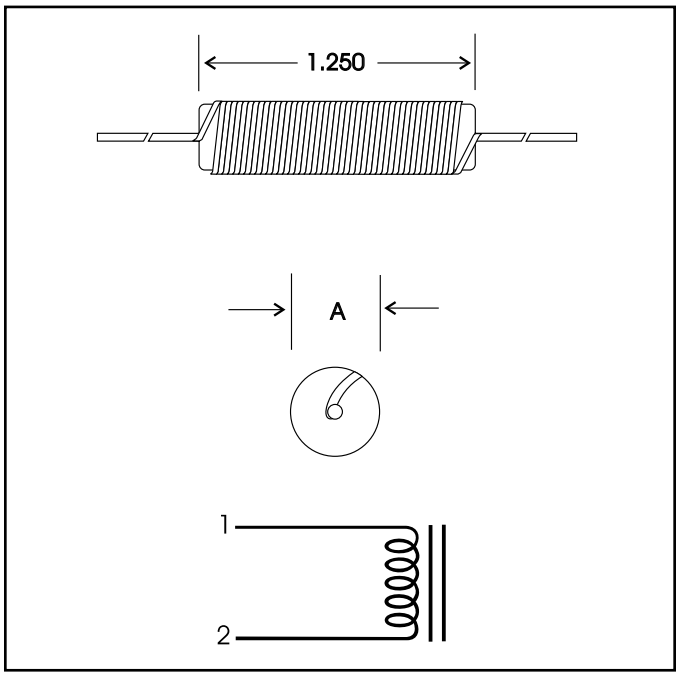
Electrical Specifications

- Inductance from 10 μH to 1500 μH.
- Current from 11 Amps to 0.39 Amp
- Tolerance of ± 10% and ± 5% available
- 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.

Manutech Part Number	Inductance @ 1 KHz L=μH	DC Resistance Ohms	Saturation Current Amp DC	Dimension A Inch
MN463-10	10	0.02	11.00	0.300
MN463-17	17	0.03	9.00	0.300
MN463-27	27	0.04	7.00	0.300
MN463-42	42	0.05	6.00	0.350
MN463-63	63	0.06	4.80	0.350
MN463-95	95	0.07	3.80	0.350
MN463-135	135	0.09	3.20	0.400
MN463-170	170	0.10	2.87	0.410
MN463-210	210	0.12	2.60	0.410
MN463-270	270	0.13	2.29	0.410
MN463-310	310	0.15	2.14	0.450
MN463-380	380	0.17	1.92	0.450
MN463-450	450	0.19	1.77	0.500
MN463-500	500	0.20	1.68	0.500
MN463-600	600	0.23	1.53	0.500
MN463-680	680	0.25	1.44	0.550
MN463-850	850	0.29	1.29	0.580
MN463-950	950	0.31	1.22	0.650
MN463-1100	1,100	0.35	1.13	0.650
MN463-1200	1,200	0.37	1.09	0.750
MN463-1350	1,350	0.39	1.02	0.800



All dimensions are in inches.

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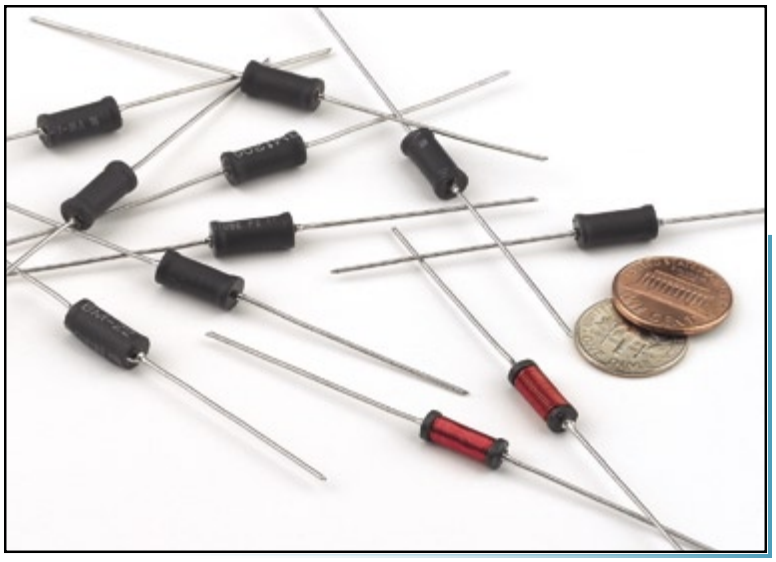
Features

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

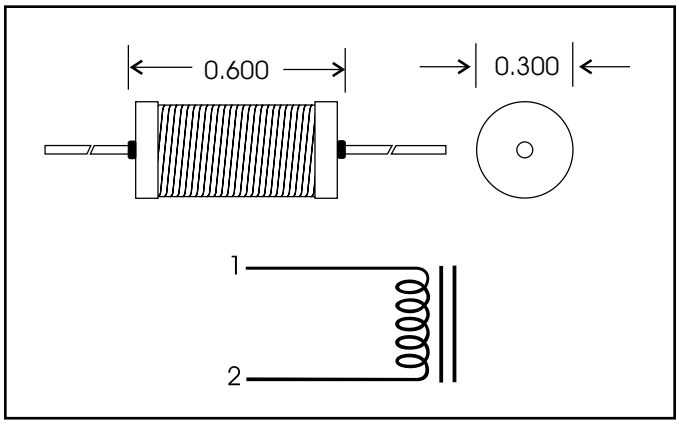


Electrical Specifications

- Inductance range from 3 μH to 18 mH.
- Inductance tolerance is ± 15%
- Tolerances of ± 10%, ± 5%, ± 3, ± 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 µH @ 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

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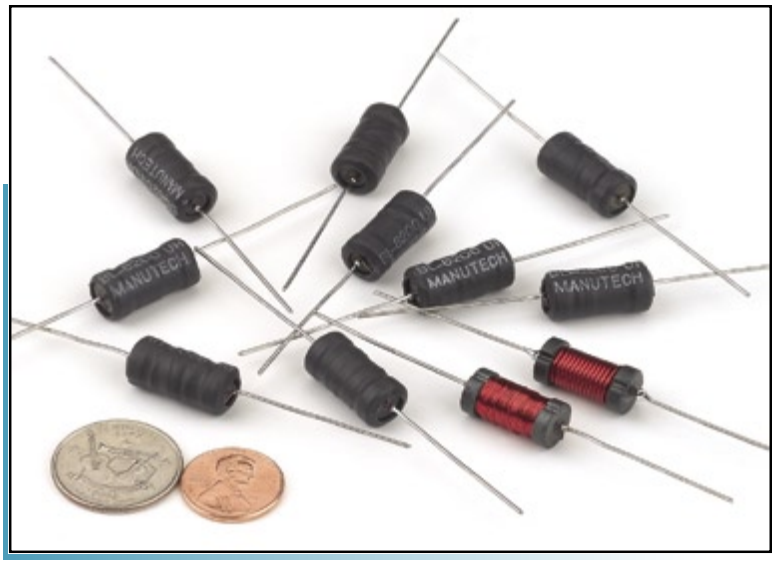
Axial Large Ferrite Inductors



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.

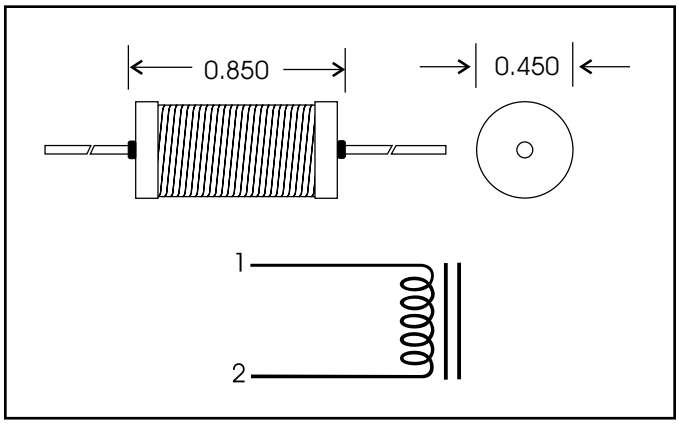
Electrical Specifications

- Inductance range from 3 μH to 100 mH.
- Inductance tolerance is ± 15%.
- Tolerances of ±10%, ±5%, ±3%, ±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.

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



All dimensions are in inches.

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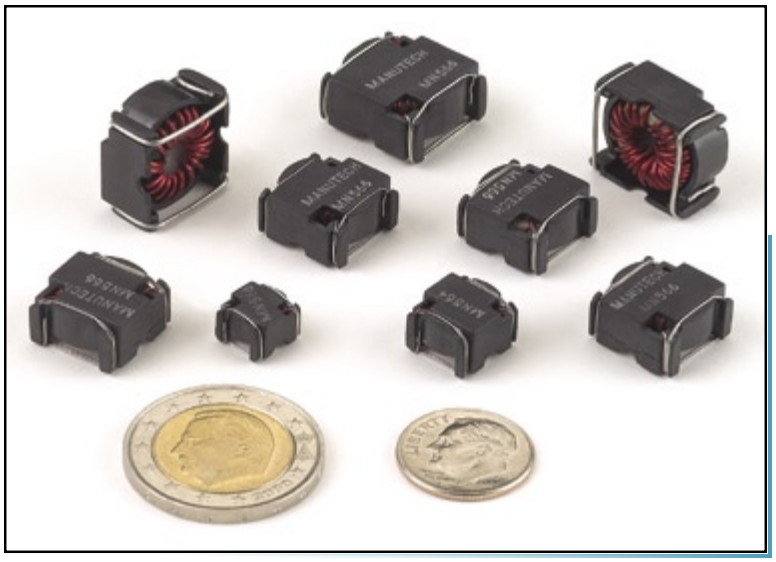
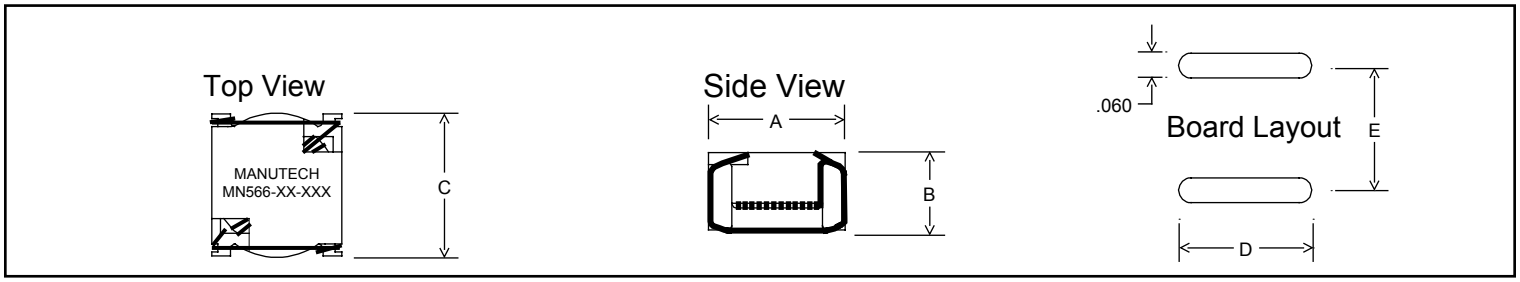
Features

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





All dimensions are in inches.

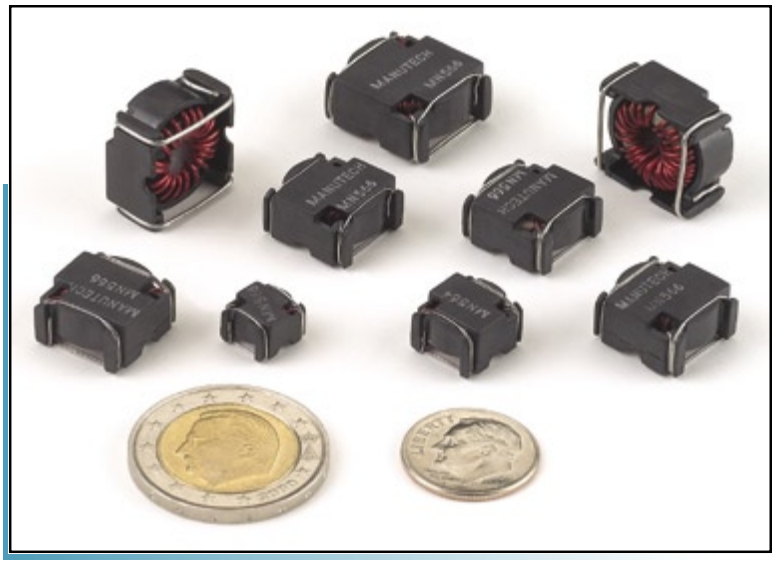
Manutech Part Number	L µH @ 1kHz ± 10%	Current Rating ADC	Incr. I ADC ΔL 10%	Incr. I ADC ΔL 20%	DCR Ω Max	SRF MHz Min	A Dim Max	B Dim Max	C Dim Max	D Dim Nom	E Dim Nom
MN566-5-10	10	7.36	6.0	8.7	0.01	35.0	0.67	0.4	0.70	0.6	0.6
MN566-5-75	75	3.47	1.6	2.5	0.05	5.0	0.67	0.4	0.70	0.6	0.6
MN566-5-100	100	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.

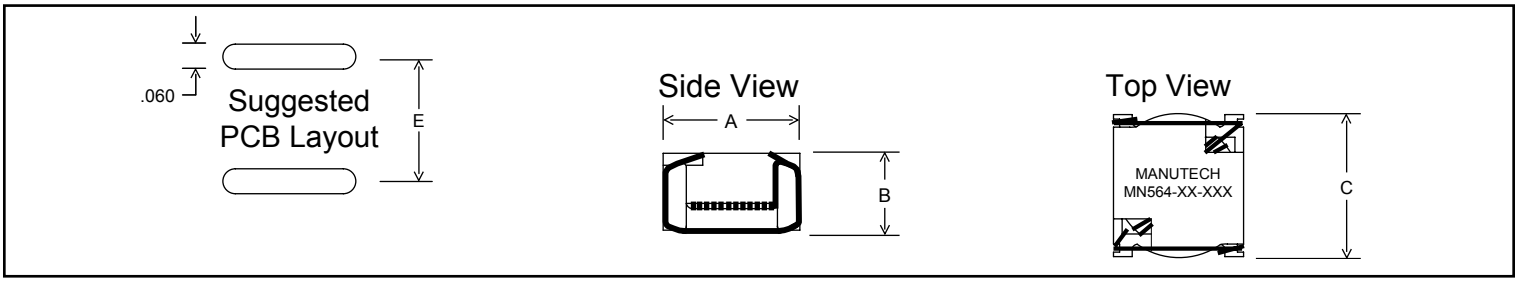
All specifications are subject to change without notice • Can be customized to your specific application

Inductors, Surface Mount



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 ± 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

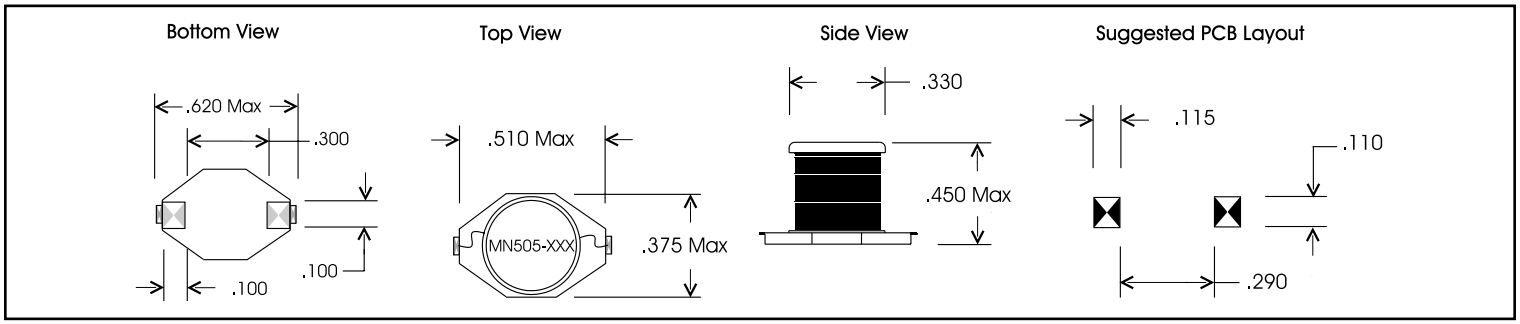
Note:

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 percentrage 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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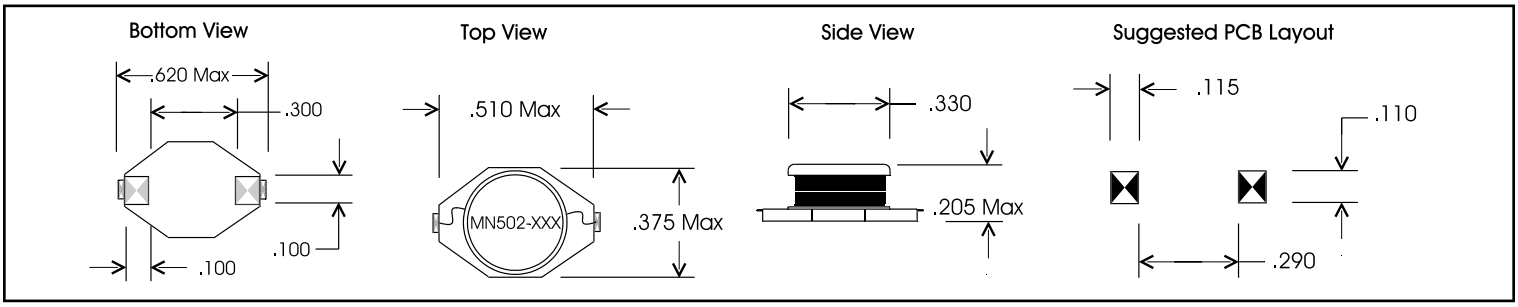
Inductors, Surface Mount, Power Midi

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 µH ±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%

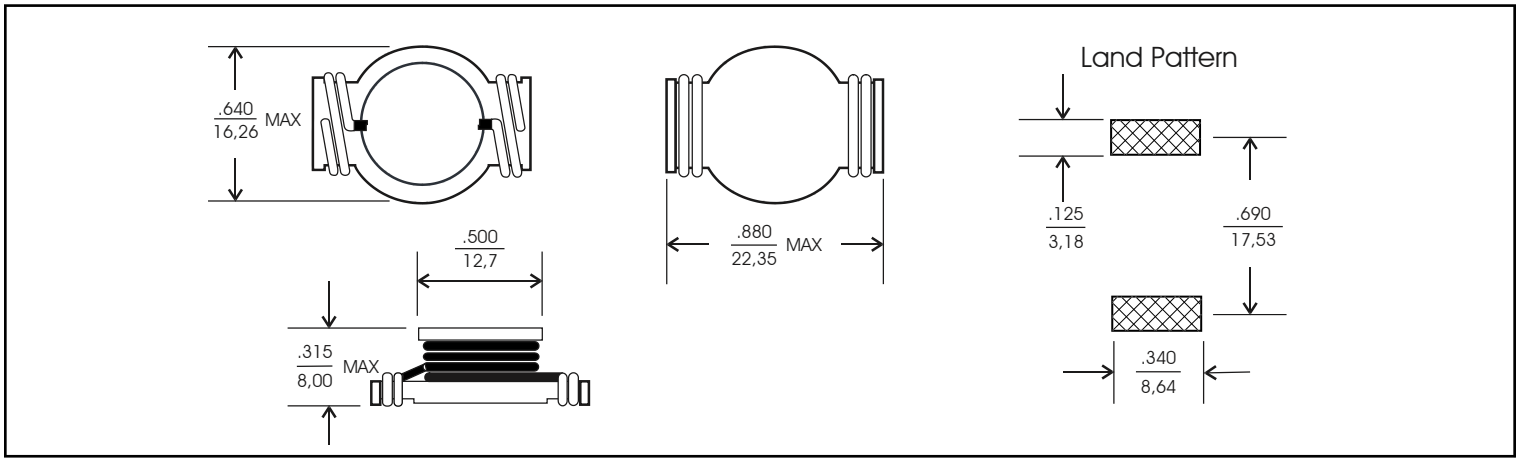
All specifications are subject to change without notice • Can be customized to your specific application

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 µH ±20%	DCR mΩ 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%

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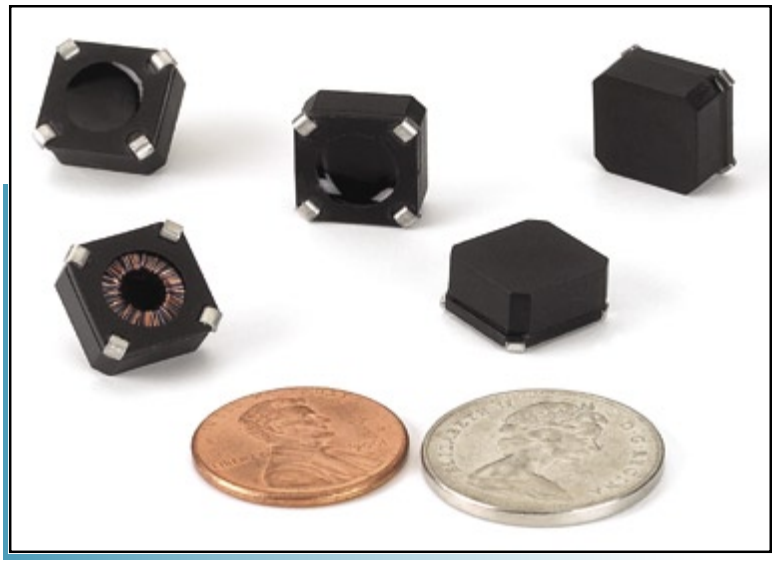
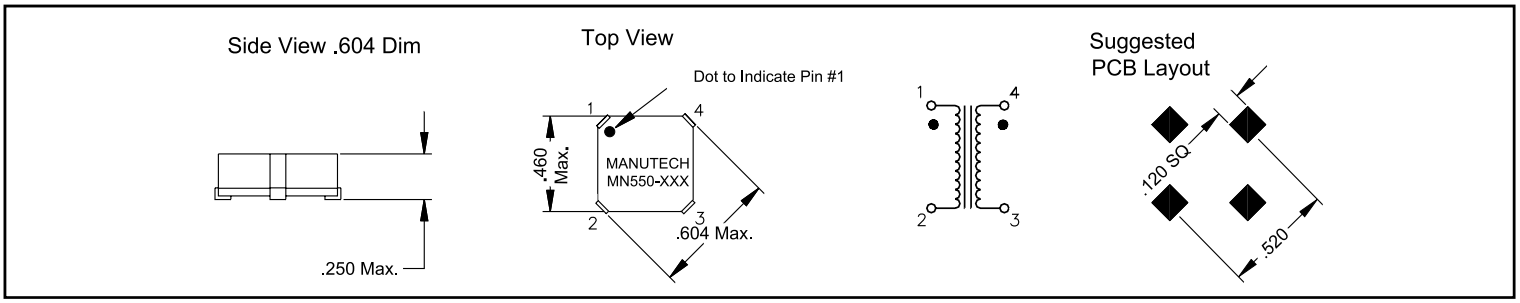
Inductors, Surface Mount, Toroidal



Features

- High Energy storage device.
- 0.5 μH @ 8 Amps to 1216 μH @ 0.38 Amps.
- Parallel windings result in low resistance and high current.
- Series windings result in high inductance
- More economical than MN558.



All dimensions are in inches.

	Parallel Ratings				Series Ratings			
Manutech Part Number	Open Circuit Inductance μH +- 20% @ 1 kHz	Full Load Current ADC	Full Load Inductance μH @ 1 kHz	DCR Ω Nominal	Open Circuit Inductance μH +- 20% @ 1 kHz	Full Load Current ADC	Full Load Inductance (ref.) μH @ 1 kHz	DCR Ω Nominal
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.

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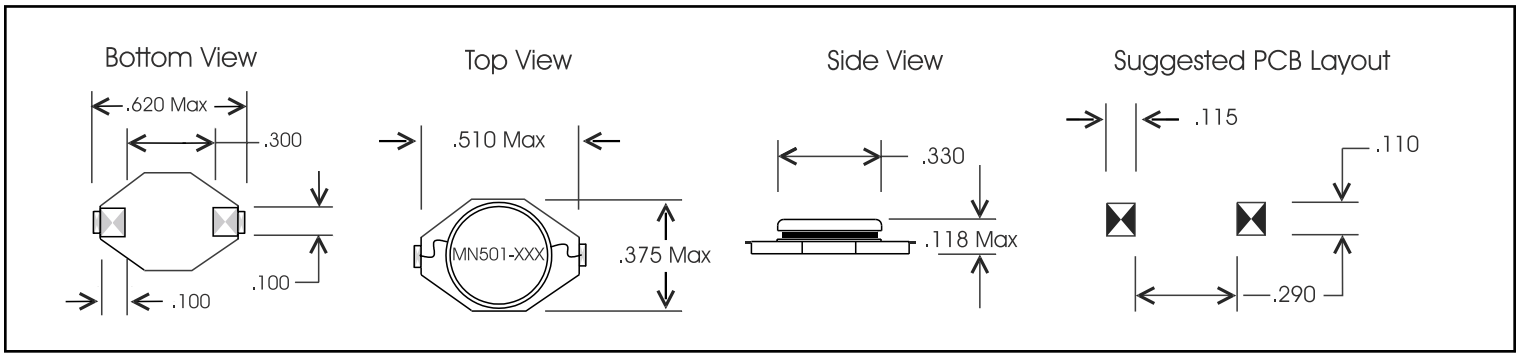
Features

- 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 µH ±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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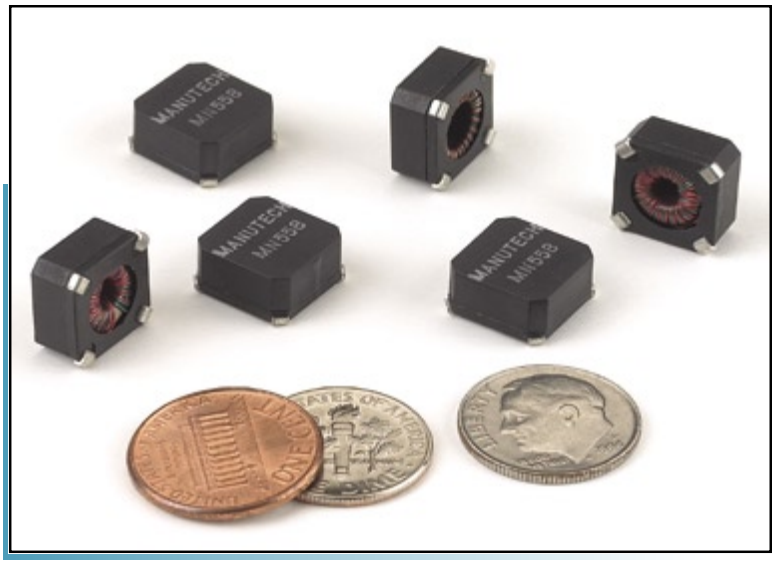
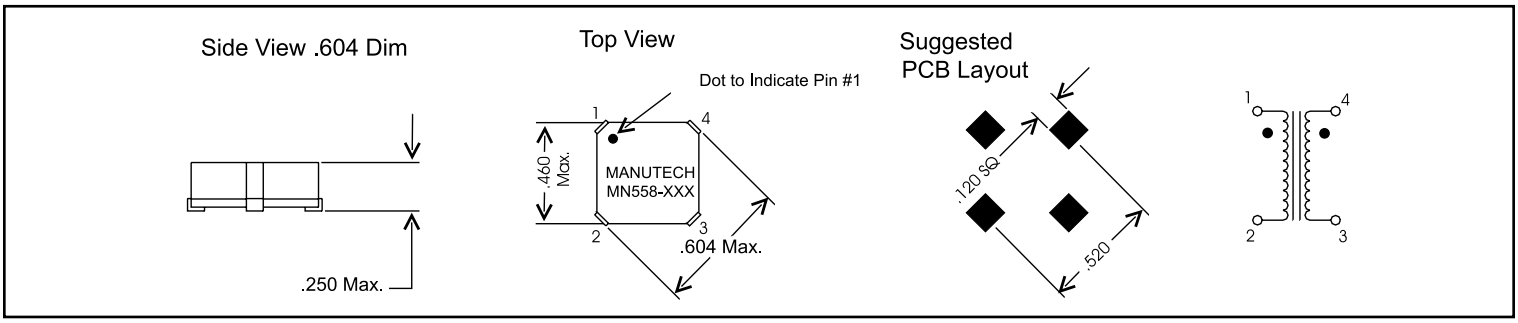
Transformers, Surface Mount



Features

- High energy storage device.
- 0.5 μH @ 8 Amps to 300 μH @ 0.75 Amp
- Parallel windings result in low resistance and high current.
- Series windings results in high inductance.
- Low profile



All dimensions are in inches.

	Parallel Ratings				Series Ratings			
Manutech Part Number	Open Circuit Inductance µH +- 20% @ 1 kHz	Full Load Current ADC	Full Load Inductance µH @ 1 kHz	DCR Ω Nominal	Open Circuit Inductance µH +- 20% @ 1 kHz	Full Load Current ADC	Full Load Inductance (ref.) µH @ 1 kHz	DCR Ω Nominal
MN558-0.5	0.50	8.71	0.45	0.004	2	4.36	1.8	0.016
MN558-1	0.90	7.79	0.77	0.005	3.6	3.90	3.08	0.020
MN558-1.35	1.35	7.11	1.16	0.006	5.4	3.56	4.64	0.024
MN558-2	2.00	6.58	1.62	0.007	8.0	3.29	6.48	0.028
MN558-5.5	5.50	4.65	4.38	0.014	22.0	2.32	17.52	0.056
MN558-8	7.75	4.35	6.08	0.016	31.0	2.18	24.32	0.064
MN558-11	10.50	3.89	7.63	0.020	42.0	1.95	30.52	0.080
MN558-16	15.75	3.56	10.77	0.024	63.0	1.78	43.08	0.096
MN558-22	22.00	2.6	15.56	0.045	88.0	1.30	62.24	0.180
MN558-26	26.00	2.49	18.84	0.049	104.0	1.25	75.36	0.196
MN558-34	34.00	2.33	24.00	0.056	136.0	1.17	96.00	0.224
MN558-52	52.00	1.88	36.88	0.086	208.0	0.94	147.52	0.344
MN558-70	70.00	1.73	49.00	0.101	280.0	0.87	196.00	0.404
MN558-75	75.00	1.56	52.55	0.125	296.0	0.78	210.20	0.500
MN558-100	100.00	1.41	72.21	0.152	420.0	0.71	288.84	0.608
MN558-150	150.00	1.01	107.81	0.300	608.0	0.51	431.24	1.200
MN558-200	200.00	0.94	142.82	0.343	804.0	0.47	571.28	1.372
MN558-250	250.00	0.79	182.47	0.486	1000.0	0.40	729.88	1.944
MN558-300	300.00	0.75	215.91	0.536	1216.0	0.38	863.64	2.144

Note:

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

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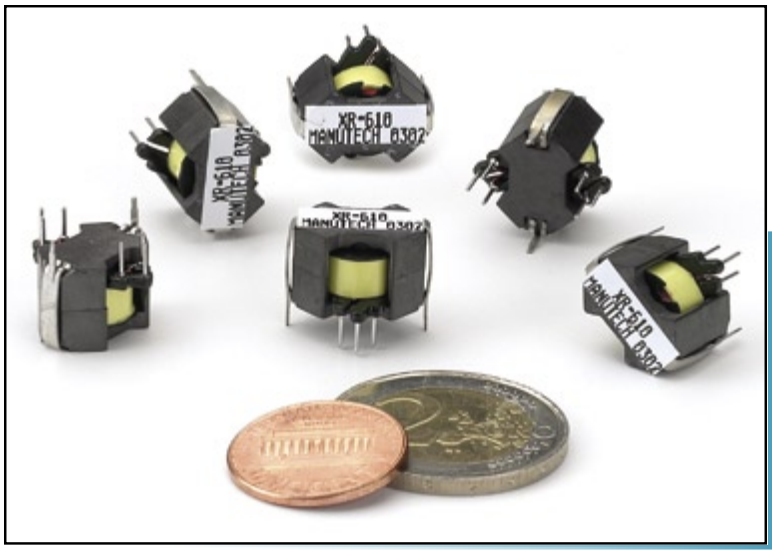
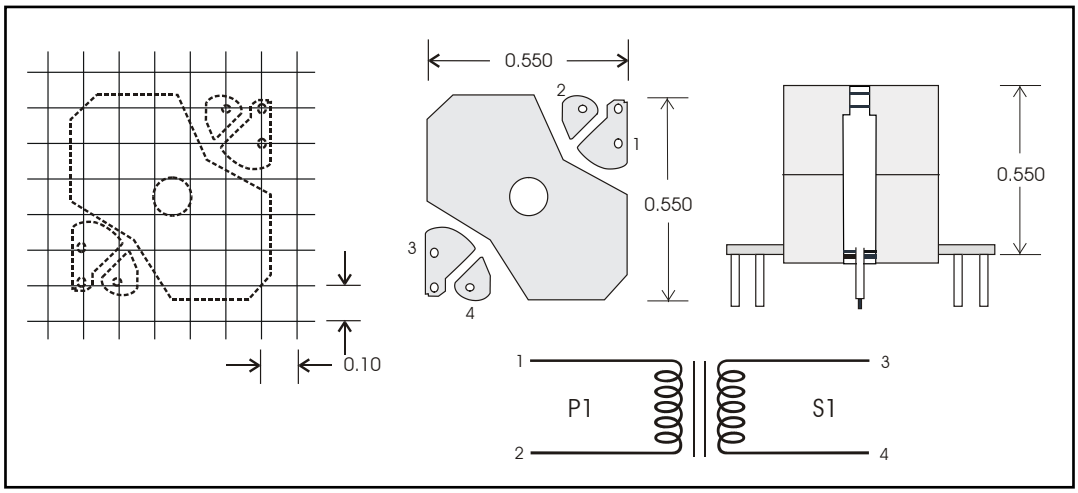
Features

- Due to the rectangular design of the ferrite, the RM core uses approximately 40% less space on the PCB than a pot core design with comparable output.
- Electrical specification is measured at 1 KHz and zero DC current.





All dimensions are in inches.

Manutech Part Number	Turns Ratio P1/S1	Primary Inductance L=mH	Primary Resistance Ohm Max.	Secondary Inductance L=mH	Secondary Resistance Ohm Max.
MN740-610	1:10	0.94	0.5	23	9
MN740-615	1:15	0.94	0.5	52	13
MN740-620	1:20	0.94	0.5	94	17
MN740-625	1:25	0.94	0.5	146	22

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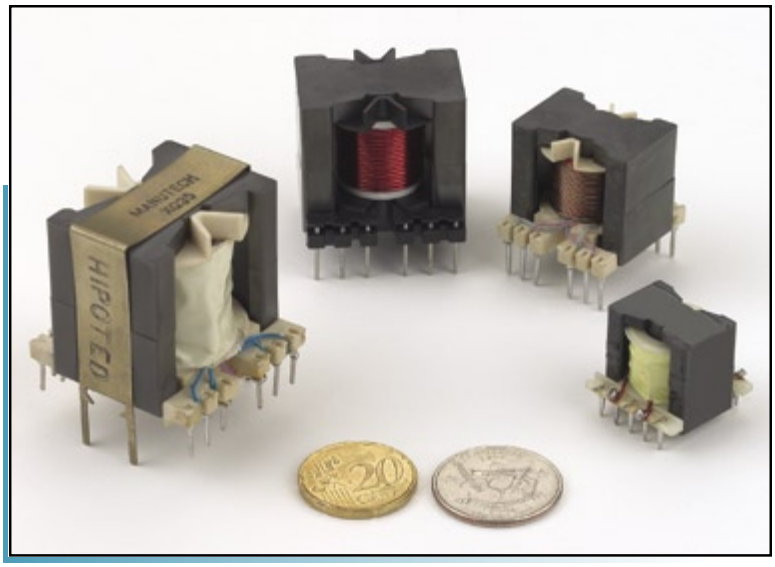
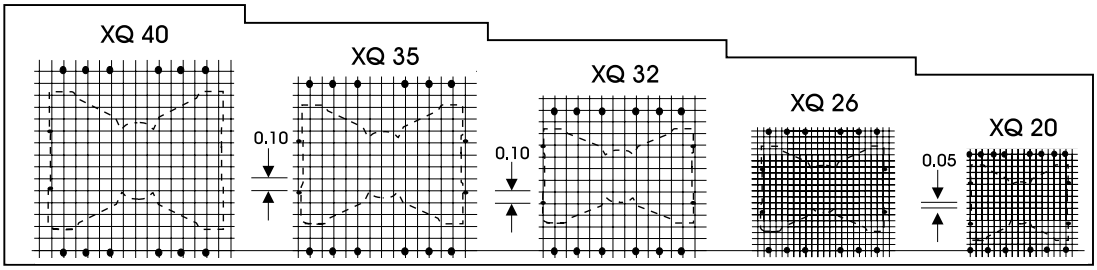
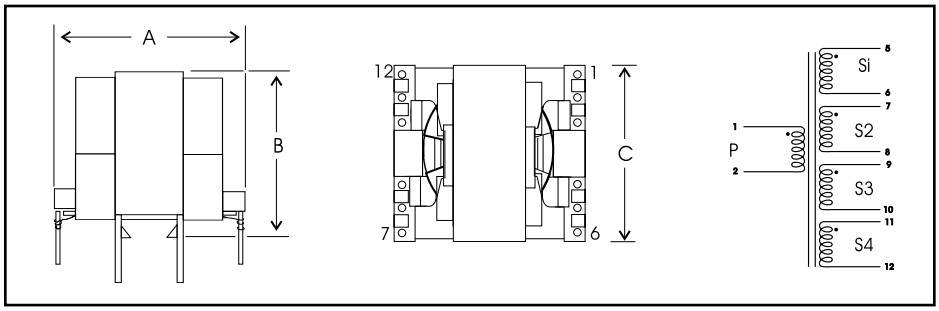
PQ Switch Mode, Power Transformers



Features

- UL and VDE standards.
- Part can be made with clips or bonded cores.
- Custom designs available.





Parameters	Manutech Part Number				
	MN730-20	MN730-26	MN730-32	MN730-35	MN730-40
Wattage (Watt)	100.0	160.00	260.000	350.000	500.000
Operating Frequency (KHz)	100.0	100.00	100.000	100.000	100.000
Primary Voltage (volt)	96.0	96.00	96.000	96.000	96.000
Secondary 1 (Volt)	5.0	5.00	5.000	5.000	5.000
Secondary 2 (Volt)	-5.0	-5.00	-5.000	-5.000	-5.000
Secondary 3 (Volt)	12.0	12.00	12.000	12.000	12.000
Secondary 4 (Volt)	-12.0	-12.00	-12.000	-12.000	-12.000
Primary Inductance (mH)	3.1	2.34	2.010	2.070	1.530
Dielectric Strength (AC Volt)	2,500.0	2,500.00	2,500.000	2,500.000	2,500.000
Temperature rise (C)	40.0	40.00	40.000	40.000	40.000
Dimension A (Inch)	0.9	1.17	1.350	1.550	1.675
Dimension B (Inch)	0.9	0.91	1.335	1.515	1.725
Dimension C (Inch)	0.9	1.10	1.340	1.470	1.700

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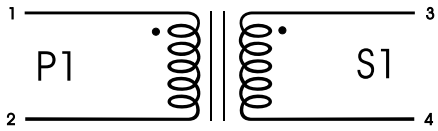
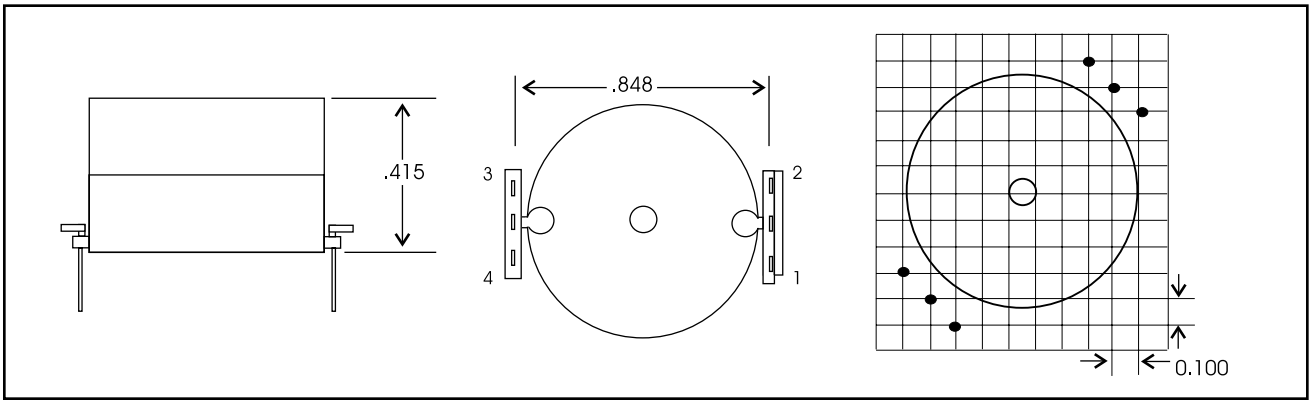
Features

- Winding enclosed inside the core halves, resulting in low EMI/RFI radiation.
- High efficiency due to low leakage inductance.
- Custom designs available.





All dimensions are in inches.

Manutech Part Number	Turn Ratio P1/S1	Primary Inductance L=mH	Primary Resistance Ohm Max.	Secondary Inductance L=mH	Secondary Resistance Ohm Max.
MN718-1	1:1	40	11.2	40	11.2
MN718-2	1:2	10	5.5	50	11.2
MN718-3	1:3	10	5.5	90	17.9
MN718-4	1:4	10	5.5	160	23.9
MN718-5	1:5	10	5.5	250	30.8

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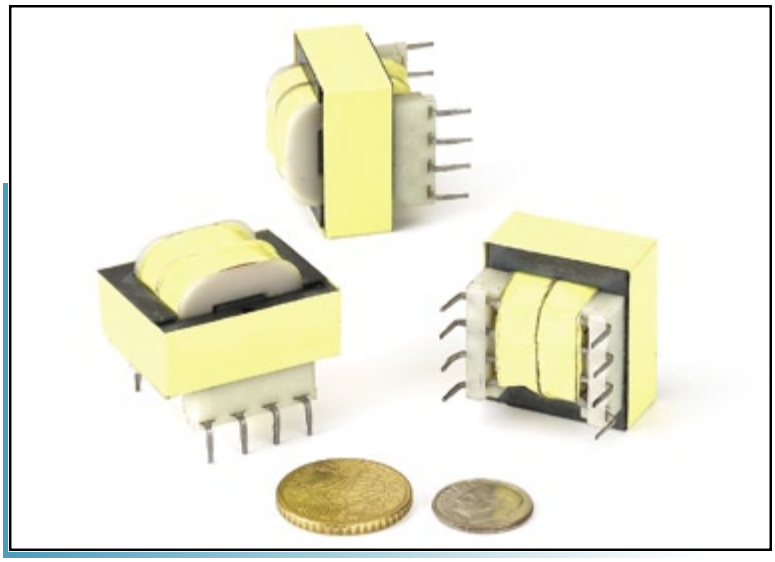
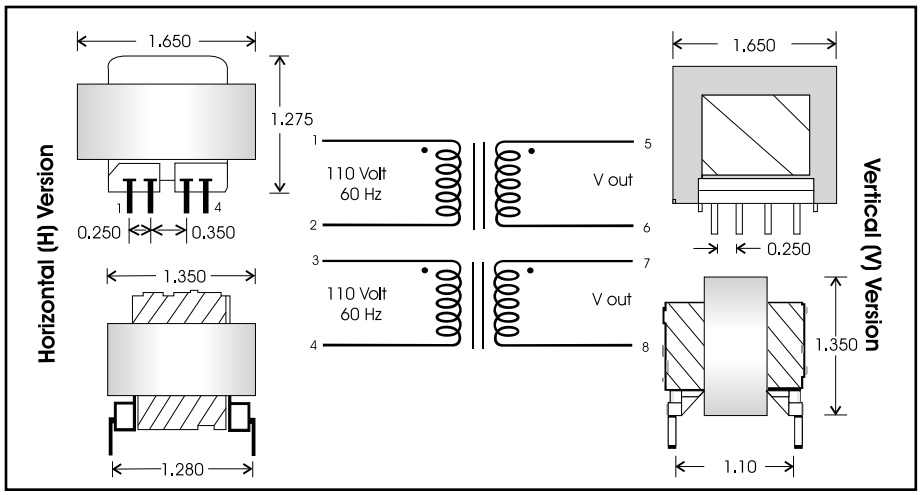
50/60 Hz Power Transformers



Features

- Ideal for PCB plug in.
- Two models with same electrical specifications.
- Steel laminations in vertical (V) or horizontal (H) position.
- UL and international standards.



All dimensions are in inches.

	Secondary RMS Rating			
Manutech Part Number	Series Connected V Out	Series Connected Amps	Parallel Connected V Out	Parallel Connected Amps
MN605-10	10.00	1.00	5	2.00
MN605-12	12.00	0.80	6	1.60
MN605-16	16.00	0.62	8	1.25
MN605-20	20.00	0.50	10	1.00
MN605-24	24.00	0.42	12	0.84
MN605-28	28.00	0.36	14	0.72
MN605-36	36.00	0.28	18	0.56

Note:

1. When ordering, please add "V" for Vertical or "H" for Horizontal at the end of the part number to indicate your preferred position of steel laminations.

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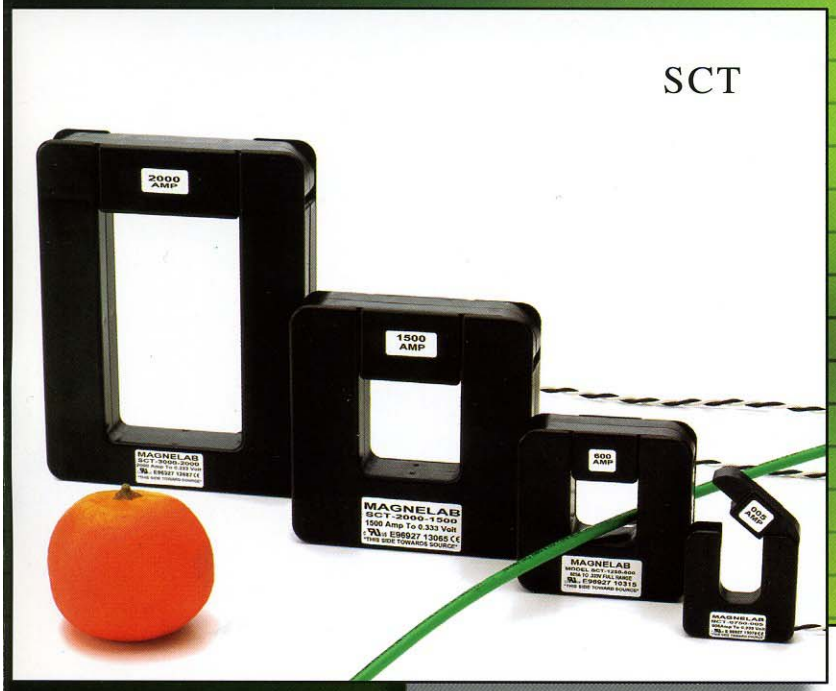
MAGNELAB

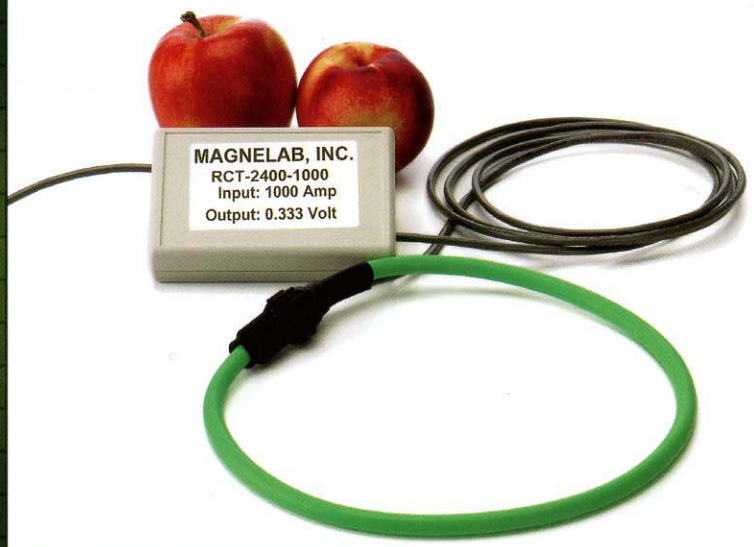
Energy Management Products

ISO 9001:2000 REGISTERED

SCT



RCT



UCT

CURRENT TRANSFORMERS:

- Split Core
- Solid Core
- Flexible Core
- Potential

SPLIT-CORE AC CURRENT SENSOR

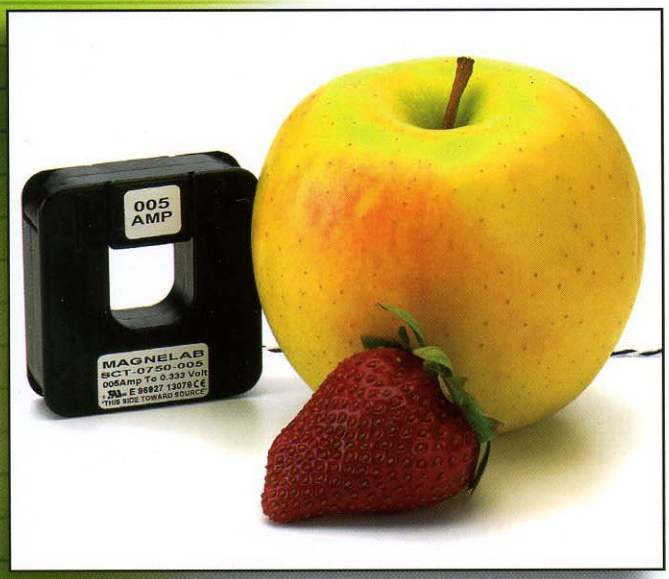
SCT-0750 Series

0.75" ID OPENING WITH 1 TO 200 AMP RATINGS

Split-core current transformers "sense" AC current from 1 to 200 Amps passing through the center conductor. Split-core transformers are ideal for installation on existing electrical wiring by snapping around the conductor. The Magnelab SCT series have of the highest industry standards both for interleaving joints and the self-locking mechanism.

FEATURES

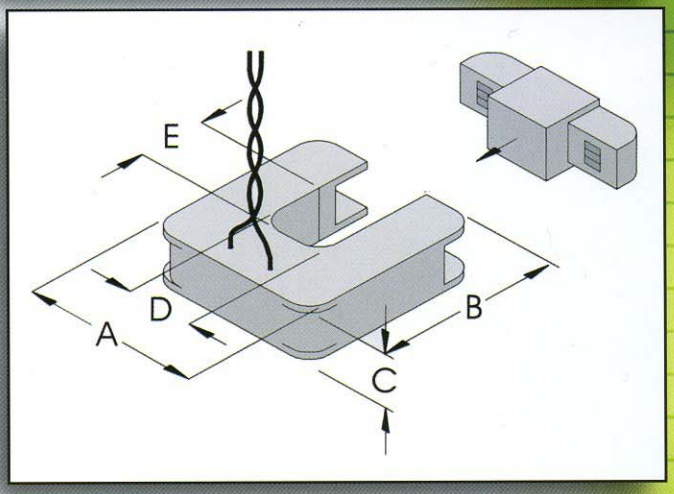
- » Rated input from 1 Amp to 200 Amp
- » 0.333 Volt AC output at rated current
- » Accuracy ± 1%
- » Accuracy at 10% to 130% of rated current
- » Operates from 50 Hz to 400 Hz
- » Phase angle < 2 degrees measured at 50% rated current
- » 8 ft. twisted-pair lead
- » UL recognized
- » Custom output and other parameters are available

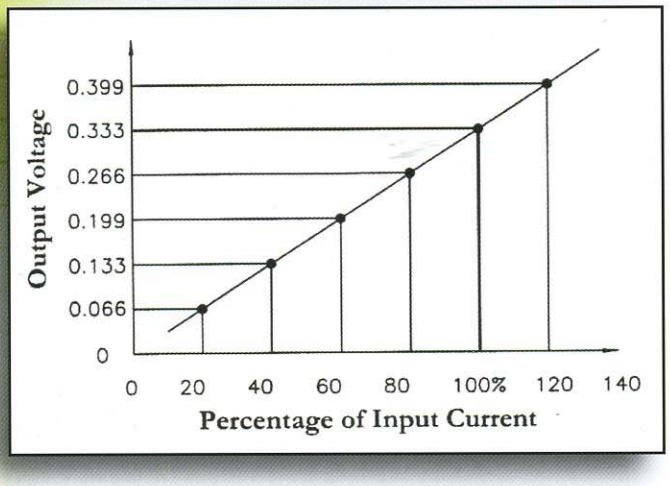


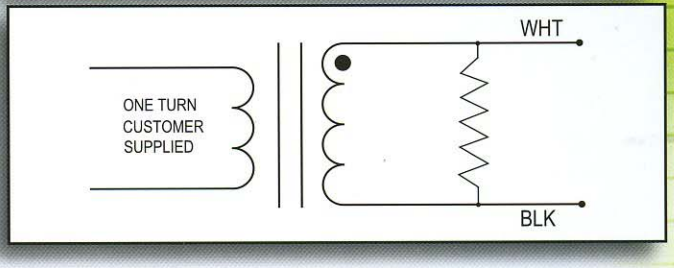
MAGNELAB PART	RATING
SCT-0750-000	NO BURDEN RESISTOR
SCT-0750-005*	5 AMP
SCT-0750-010	10 AMP
SCT-0750-030	30 AMP
SCT-0750-050	50 AMP
SCT-0750-070	70 AMP
SCT-0750-100	100 AMP
SCT-0750-150	150 AMP
SCT-0750-200	200 AMP

* PHASE ANGLE SLIGHTLY HIGHER

ALL DIMENSIONS ARE IN INCHES	
A	2.000"
B	2.100"
C	0.610"
D	**0.750"**
E	0.750"







CE RoHS ISO 9001:2000

MAGNELAB

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E: info@magnelab.com

SPLIT-CORE AC CURRENT SENSOR

1.25" ID OPENING WITH 50 TO 600 AMP RATINGS

SCT-1250 Series

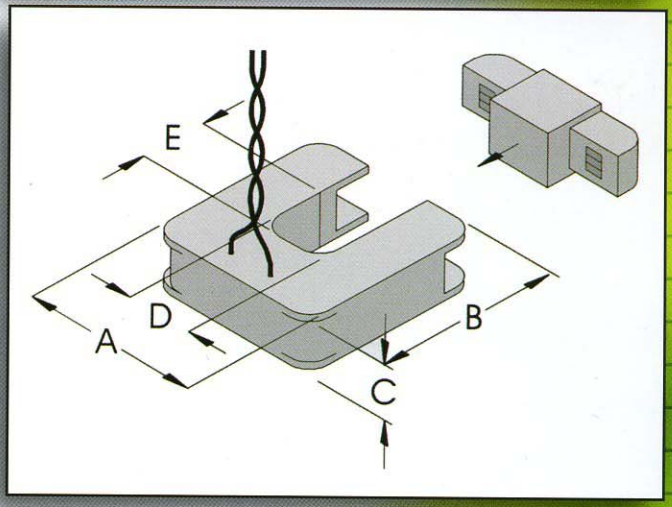
Split-core current transformers "sense" AC current from 50 to 600 Amps passing through the center conductor. Split-core transformers are ideal for installation on existing electrical wiring by snapping around the conductor. The Magnelab SCT series have of the highest industry standards both for interleaving joints and the self-locking mechanism.

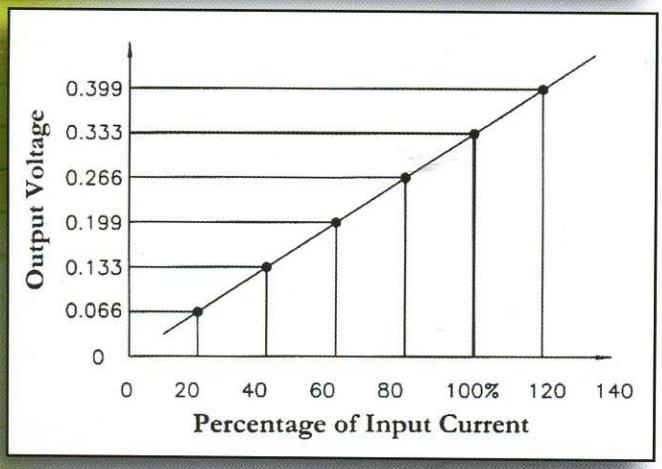
FEATURES

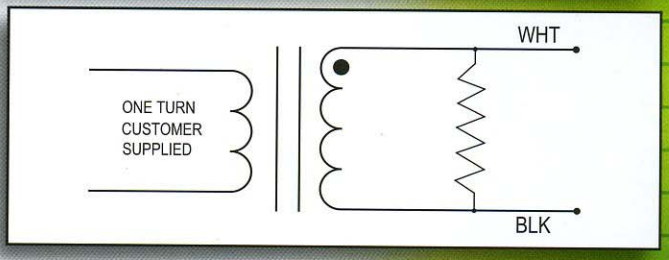
- » Rated input from 50 Amp to 600 Amp
- » 0.333 Volt AC output at rated current
- » Accuracy ± 1%
- » Accuracy at 10% to 130% of rated current
- » Operates from 50 Hz to 400 Hz
- » Phase angle < 2 degrees measured at 50% rated current
- » 8 ft. twisted-pair lead
- » UL recognized
- » Custom output and other parameters are available

MAGNELAB PART	RATING
SCT-1250-050	50 AMP
SCT-1250-070	70 AMP
SCT-1250-100	100 AMP
SCT-1250-150	150 AMP
SCT-1250-200	200 AMP
SCT-1250-250	250 AMP
SCT-1250-300	300 AMP
SCT-1250-400	400 AMP
SCT-1250-600	600 AMP

ALL DIMENSIONS ARE IN INCHES	
A	3.250"
B	3.350"
C	1.000"
D	**1.250"**
E	1.250"







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SPLIT-CORE AC CURRENT SENSOR

2.00" ID OPENING WITH 100 TO 1500 AMP RATINGS

SCT-2000 Series

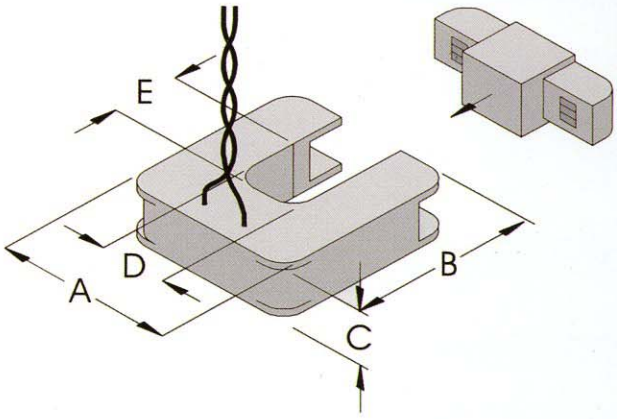
Split-core current transformers "sense" AC current from 100 to 1500 Amps passing through the center conductor. Split-core transformers are ideal for installation on existing electrical wiring by snapping around the conductor. The Magnelab SCT series have of the highest industry standards both for interleaving joints and the self-locking mechanism.

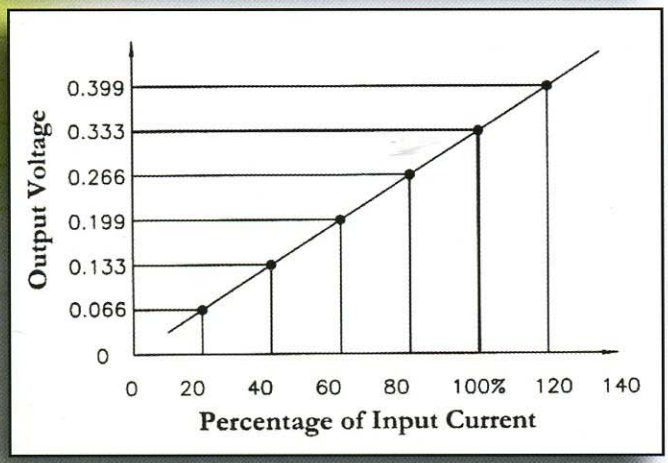
FEATURES

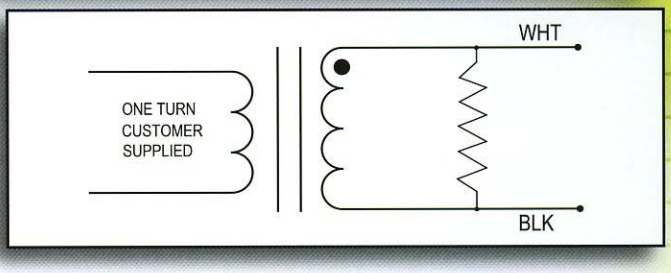
- » Rated input from 100 Amp to 1500 Amp
- » 0.333 Volt AC output at rated current
- » Accuracy ± 1%
- » Accuracy at 10% to 130% of rated current
- » Operates from 50 Hz to 400 Hz
- » Phase angle < 2 degrees measured at 50% rated current
- » 8 ft. twisted-pair lead
- » UL recognized
- » Custom output and other parameters are available

MAGNELAB PART	RATING
SCT-2000-100	100 AMP
SCT-2000-200	200 AMP
SCT-2000-300	300 AMP
SCT-2000-400	400 AMP
SCT-2000-600	600 AMP
SCT-2000-800	800 AMP
SCT-2000-1000	1000 AMP
SCT-2000-1200	1200 AMP
SCT-2000-1500	1500 AMP

ALL DIMENSIONS ARE IN INCHES	
A	4.750"
B	5.000"
C	1.200"
D	**2.000"**
E	2.000"







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SPLIT-CORE AC CURRENT SENSOR

3.00" ID OPENING WITH 400 TO 3000 AMP RANGES

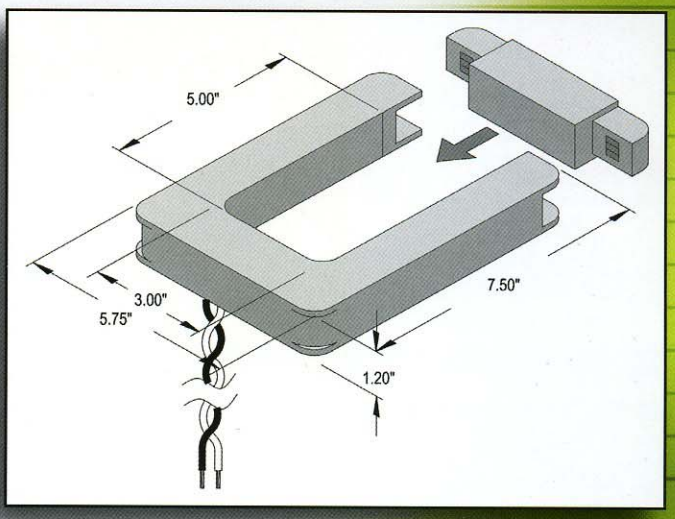
SCT-3000 Series

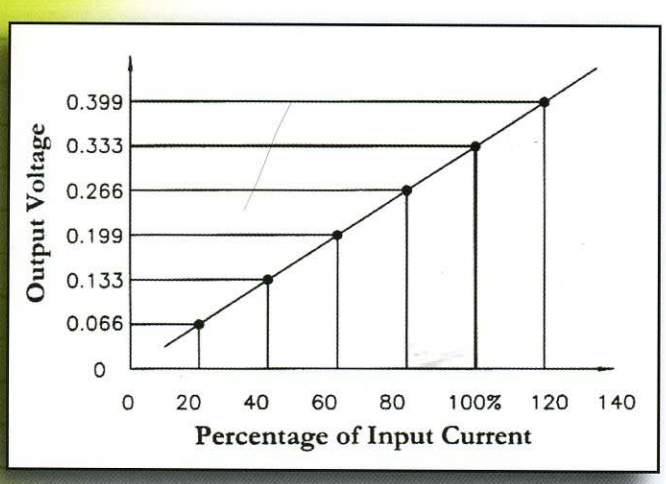
Split-core current transformers "sense" AC current from 400 to 3000 Amps passing through the center conductor. Split-core transformers are ideal for installation on existing electrical wiring by snapping around the conductor. The Magnelab SCT series have of the highest industry standards both for interleaving joints and the self-locking mechanism.

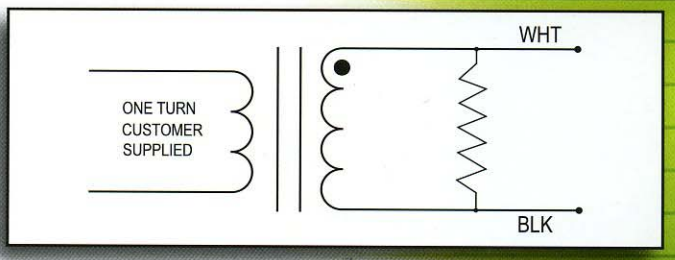
FEATURES

- » Rated input from 400 Amp to 3000 Amp
- » 0.333 Volt AC output at rated current
- » Accuracy ± 1%
- » Accuracy at 10% to 130% of rated current
- » Operates from 50 Hz to 400 Hz
- » Phase angle < 2 degrees measured at 50% rated current
- » 8 ft. twisted-pair lead
- » UL recognized
- » Custom output and other parameters are available

MAGNELAB PART	RATING
SCT-3000-400	400 AMP
SCT-3000-600	600 AMP
SCT-3000-800	800 AMP
SCT-3000-1000	1000 AMP
SCT-3000-2000	2000 AMP
SCT-3000-3000	3000 AMP







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SOLID-CORE AC CURRENT SENSOR

5 SIZES IN A VARIETY OF CURRENT RATINGS

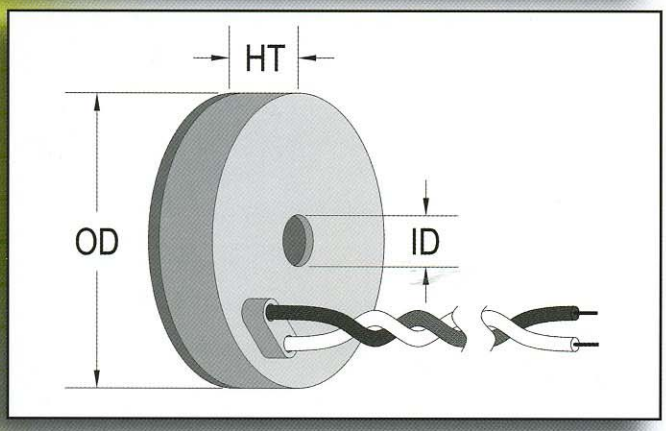
UCT Series

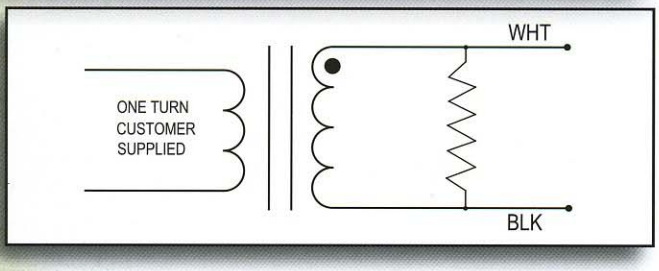
Magnelab offers a series of five AC current sensors with different hole sizes and current ratings. All UCT models are better than one percent accuracy and less than one degree phase angle. Output is controlled by a precision resistor fixed at the industry standard of 0.333 Volt AC. The rugged epoxy encapsulated construction comes with eight feet twisted leads. All closed current sensor models come with UL approval. Please contact Magnelab for other ratings and customized designs.

FEATURES

- » Rated input current from 5 Amp to 400 Amp
- » Phase angle < 1 degree measured at 50% rated current
- » Accuracy at 10% to 130% of rated current
- » Custom output and other parameters are available
- » 0.333 Volt AC output at rated current
- » Accuracy ± 1%
- » 8 ft. twisted pair lead
- » UL recognized

MAGNELAB PART	I.D.	O.D.	HT
UCT-0300-XXX	**0.30"**	1.70"	0.75"
UCT-0500-XXX	**0.50"**	1.90"	0.75"
UCT-0750-XXX	**0.75"**	2.10"	0.75"
UCT-1000-XXX	**1.00"**	2.40"	0.80"
UCT-1250-XXX	**1.25"**	2.70"	0.80"





MAGNELAB PART	RATING
UCT-0300-005	5 AMP
UCT-0300-015	15 AMP
UCT-0300-020	20 AMP
UCT-0300-030	30 AMP
UCT-0500-015	15 AMP
UCT-0500-030	30 AMP
UCT-0500-050	50 AMP
UCT-0500-060	60 AMP
UCT-0750-030	30 AMP
UCT-0750-050	50 AMP
UCT-0750-070	70 AMP
UCT-0750-100	100 AMP
UCT-1000-050	50 AMP
UCT-1000-070	70 AMP
UCT-1000-100	100 AMP
UCT-1000-150	150 AMP
UCT-1000-200	200 AMP
UCT-1250-070	70 AMP
UCT-1250-100	100 AMP
UCT-1250-150	150 AMP
UCT-1250-200	200 AMP
UCT-1250-250	250 AMP
UCT-1250-300	300 AMP
UCT-1250-400	400 AMP

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POTENTIAL TRANSFORMER

MEASURES 120 TO 460 VOLT AC

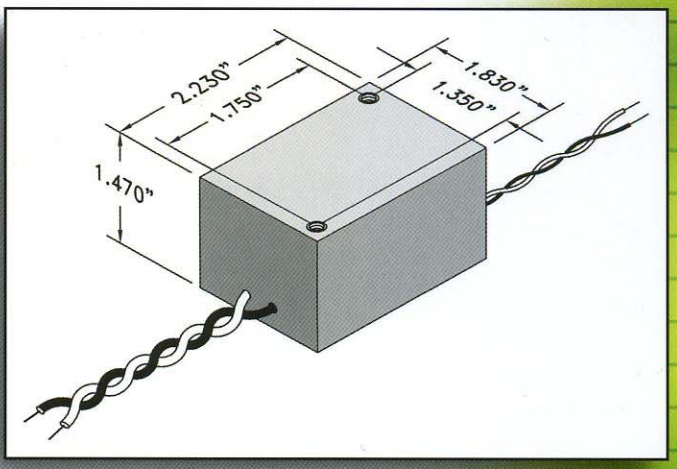
SPT-0375 Series

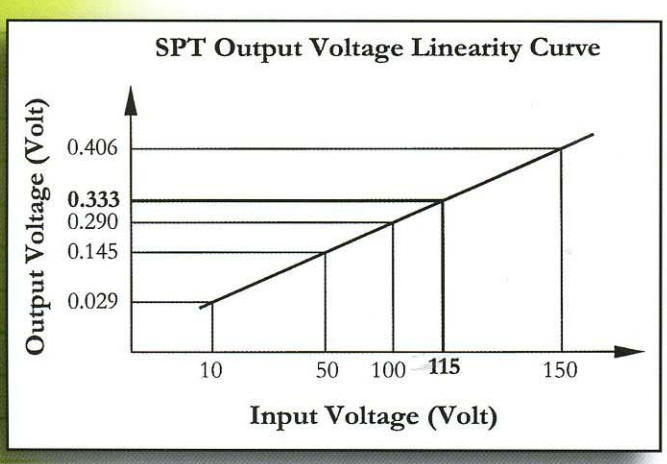
The potential transformer provides a linear output voltage proportional to the input voltage. The SPT potential transformers do not saturate for over 1 KV, and the rugged epoxy potted construction makes it suitable for installation in harsh environments. The output voltage is ANSI standard of 0.333 volt making the SPT series ideal for data loggers and other electronic measuring instrumentation.

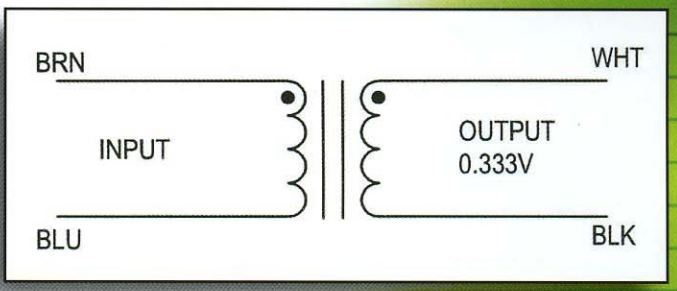
FEATURES

- » Rated input from 115 Volts to 460 Volts
- » 0.333 Volt AC output at rated voltage
- » Accuracy ± 1%
- » Accuracy at 10% to 130% of rated voltage
- » Withstand voltage of 2,500 Vrms primary to secondary
- » Phase angle < 1 degree
- » Input leads 14 AWG 8 ft. long
- » Output leads 22 AWG 8 ft. long
- » UL recognized
- » Two mounting holes using #8/32 blind inserts

MAGNELAB PART	INPUT VOLTAGE RANGE	RATED INPUT	OUTPUT VOLTAGE
SPT-0375-150	0 - 150	115V	0.333V
SPT-0375-300	0 - 300	230V	0.333V
SPT-0375-600	0 - 600	460V	0.333V







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RopeCT® AC CURRENT SENSOR

24 INCH ROGOWSKI COIL

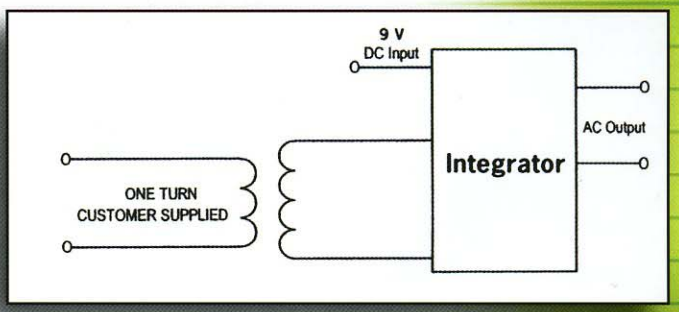
RCT-2400 Series

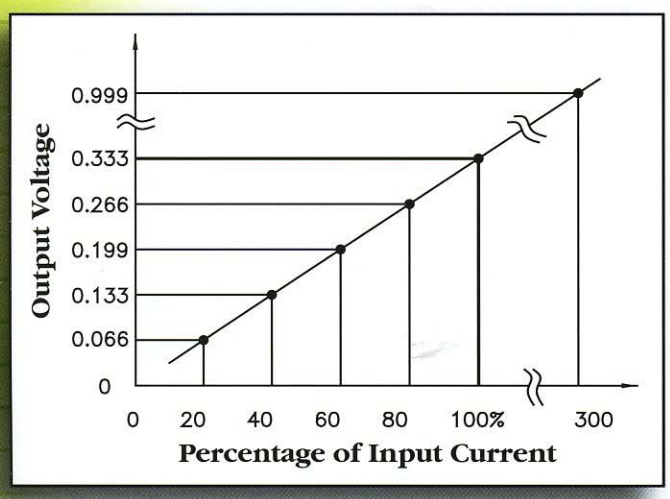
Magnelab flexible RopeCT® measures AC current rated from 500 to 5,000 Amps. The coil opens at the connector junction and can be installed on an existing cable or buss-bar in a matter of seconds.

FEATURES

- » Rated input from 500 Amp to 5000 Amp
- » Output of 0.333 Volt AC at rated current
- » Accuracy ± 1%
- » Accuracy at 10% to 300% of rated current
- » Phase angle < 0.5 degrees measured at 50% rated current
- » 4 ft. insulated leads
- » UL recognized
- » Custom output and other parameters are available

MAGNELAB PART	RATING
RCT-2400-0500	500 AMP
RCT-2400-1000	1000 AMP
RCT-2400-2000	2000 AMP
RCT-2400-3000	3000 AMP
RCT-2400-4000	4000 AMP
RCT-2400-5000	5000 AMP





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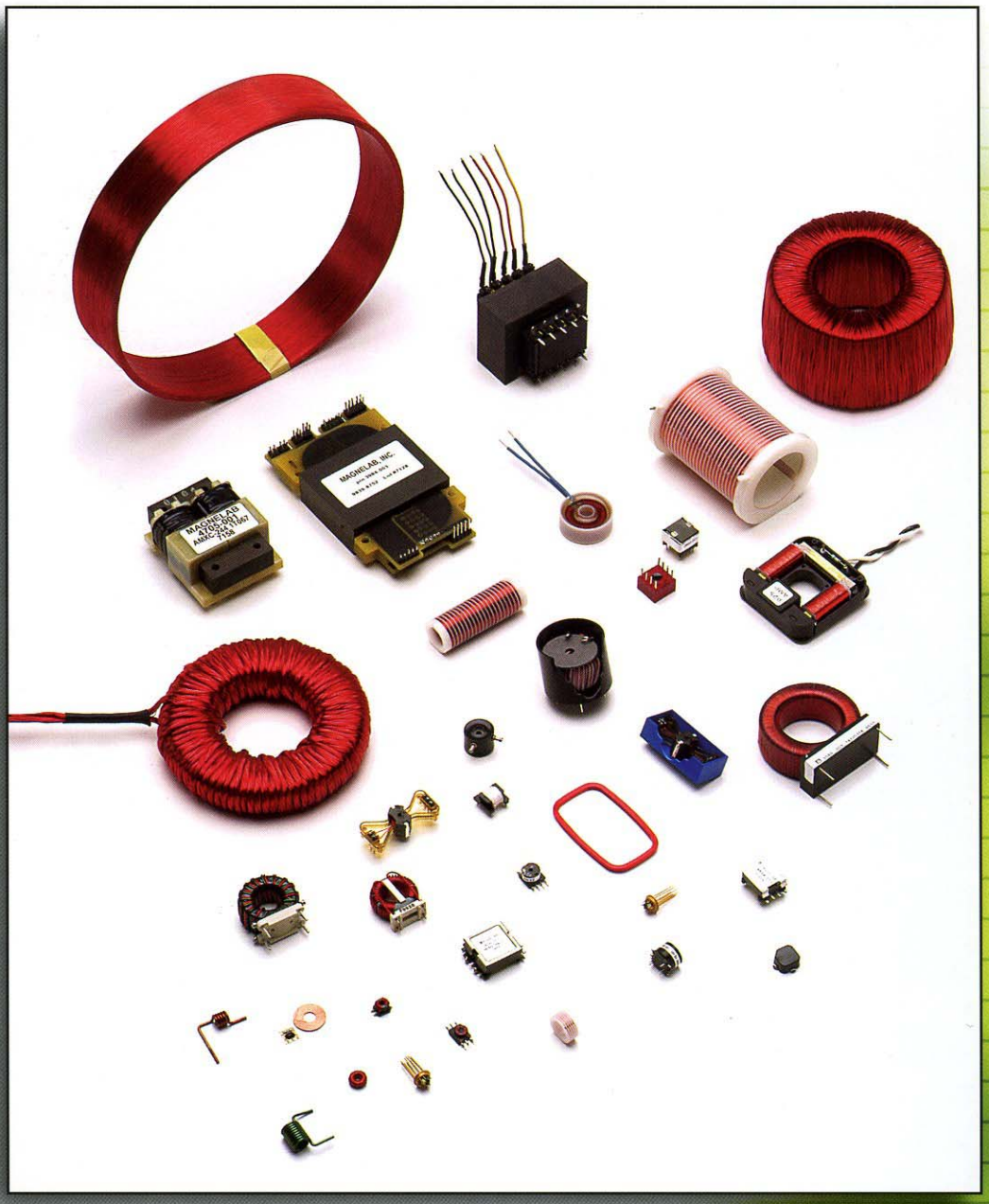
- Antenna
- Free-Form



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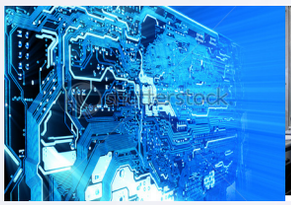




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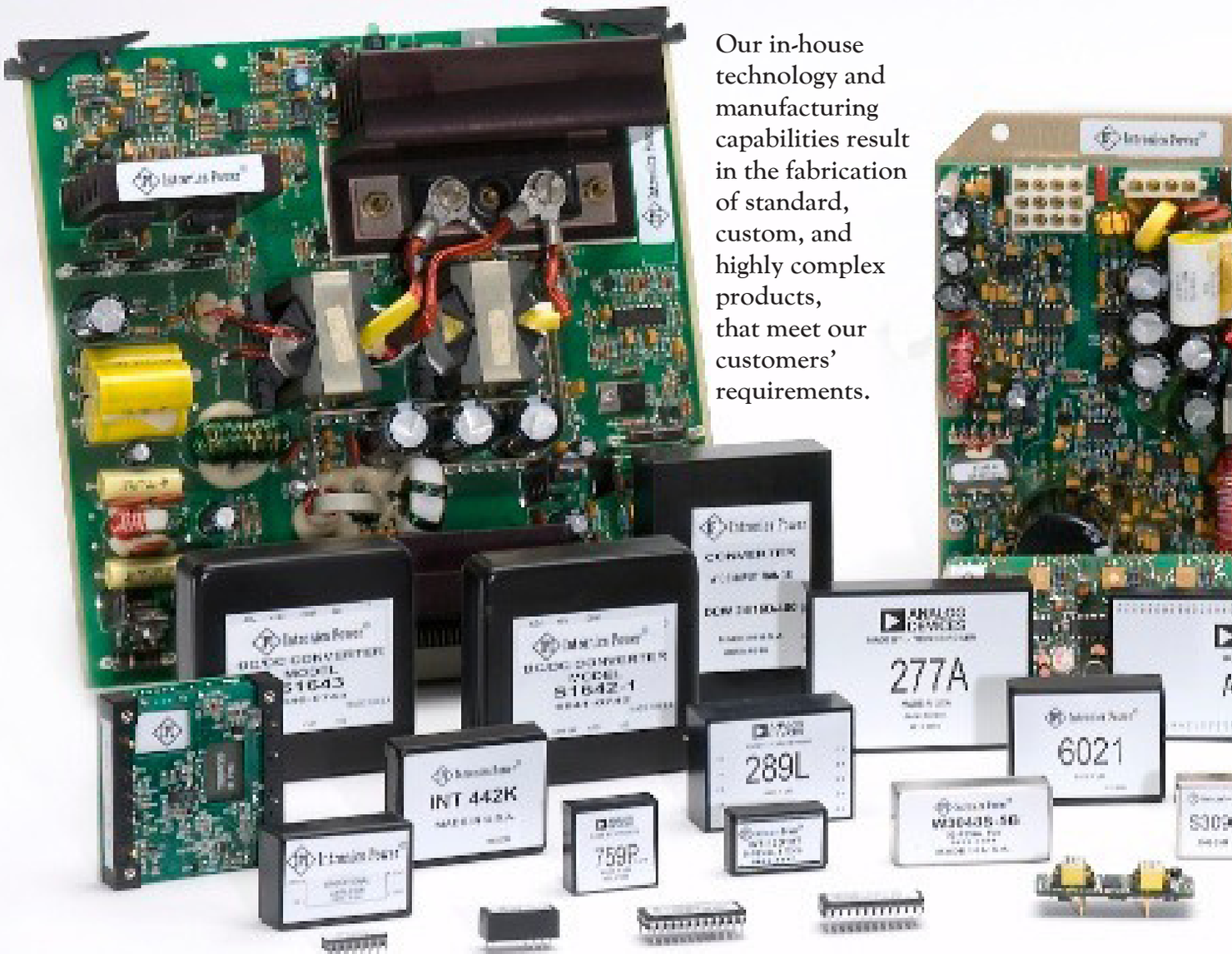

Our in-house technology and manufacturing capabilities result in the fabrication of standard, custom, and highly complex products, that meet our customers' requirements.

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