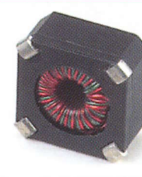
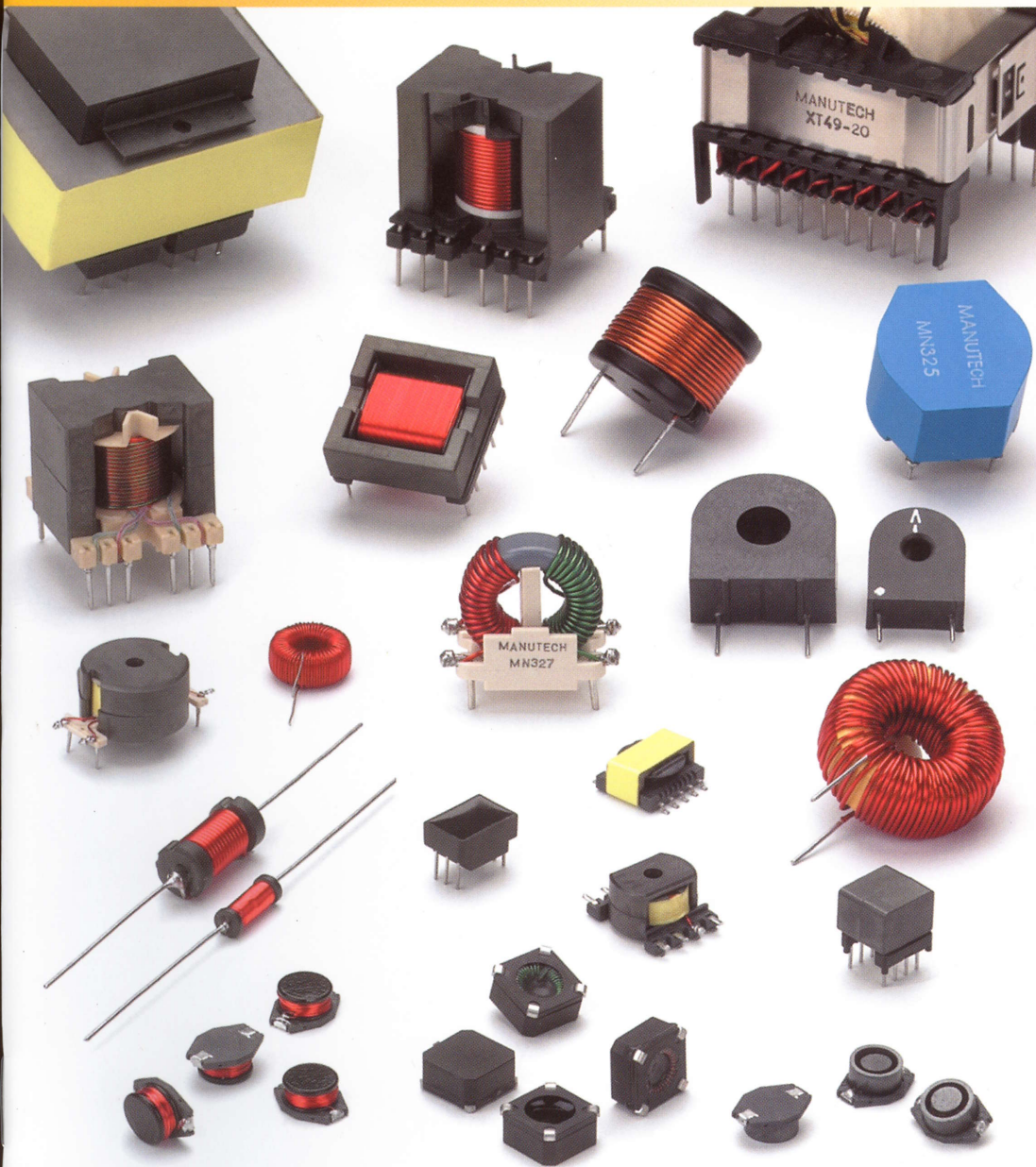
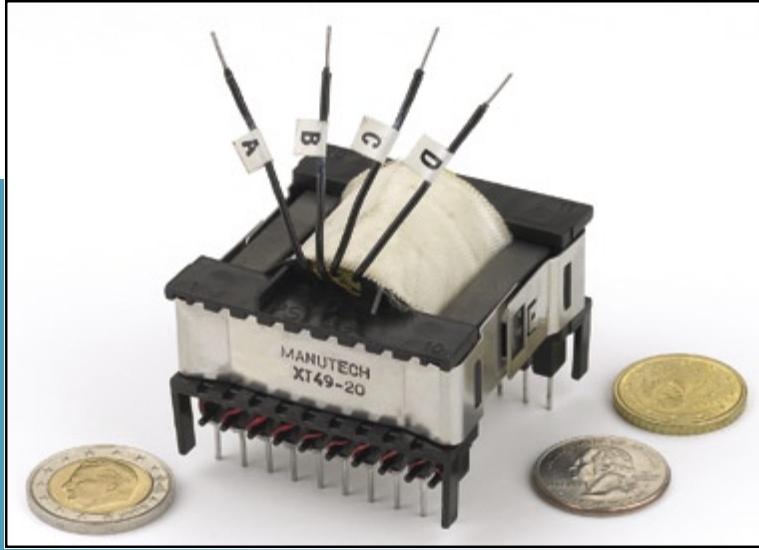


A photograph showing three toroidal inductors. They are constructed from a dark, possibly ferrite, toroidal core with a large number of turns of bright red enamel-coated wire. The coils are arranged in a cluster, with one in the foreground and two slightly behind it. A pair of silver-colored wire cutters is visible on the left side, positioned near the top of the coils.

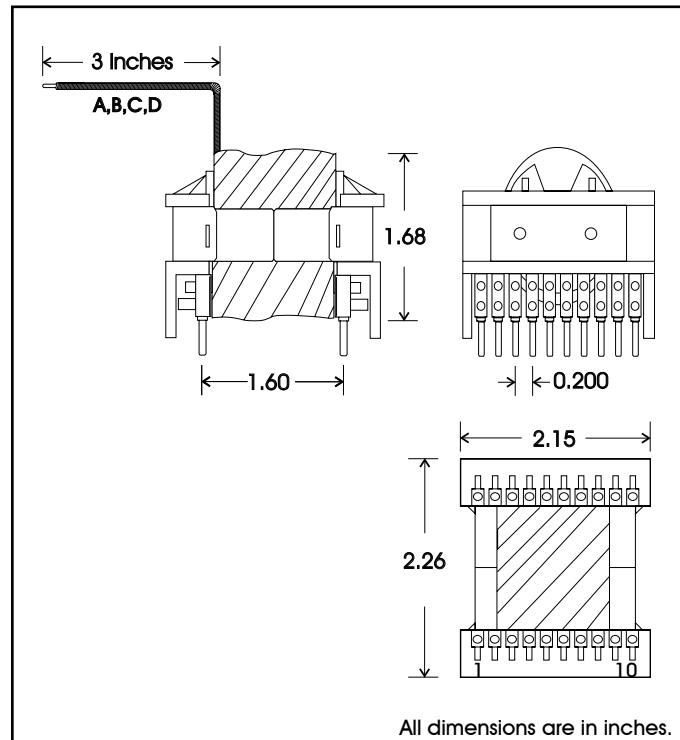
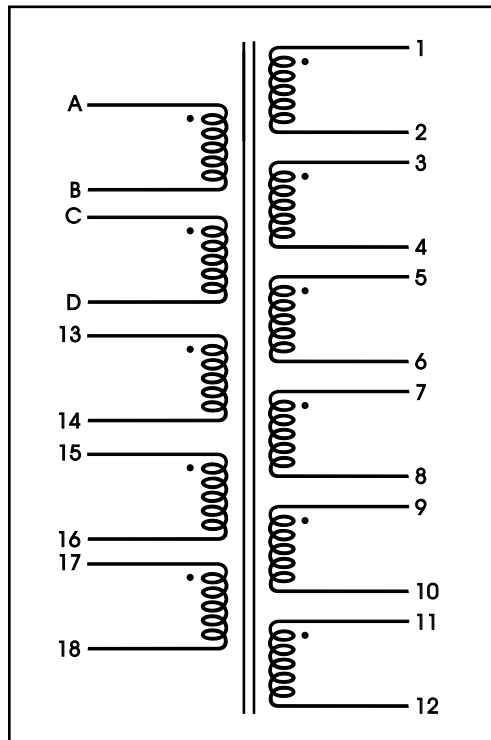




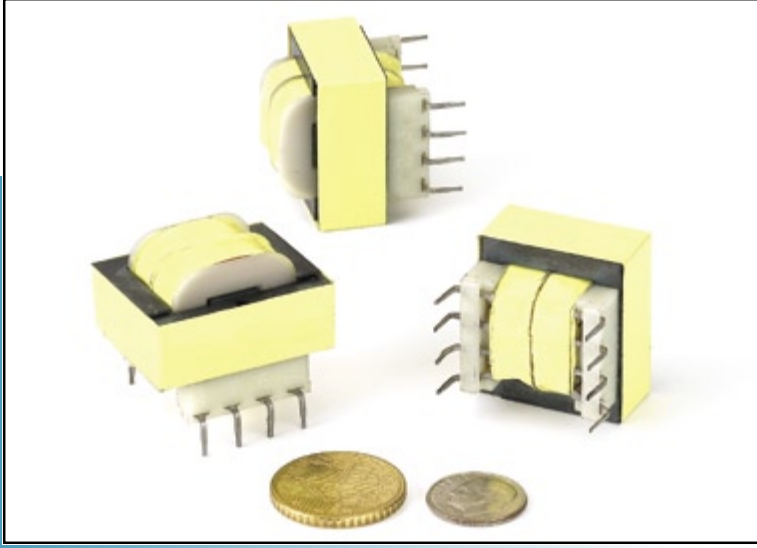
Features

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

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

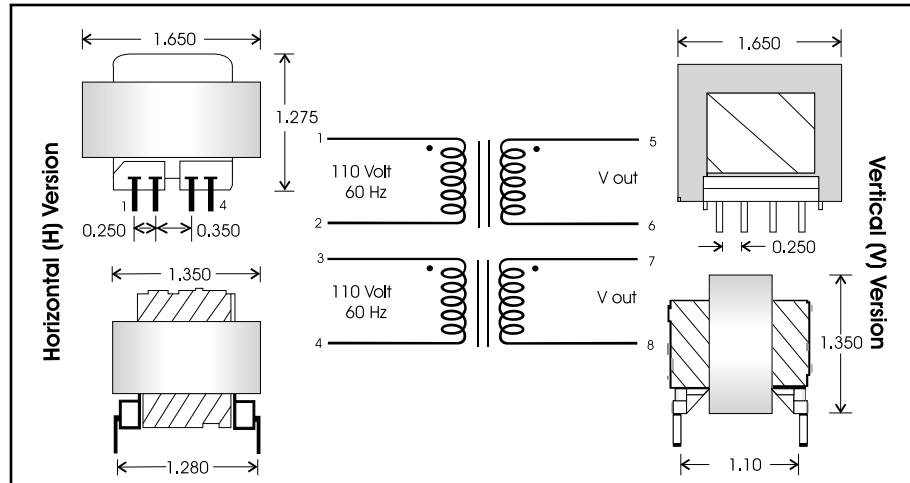


All specifications are subject to change without notice • Can be customized to your specific application



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.



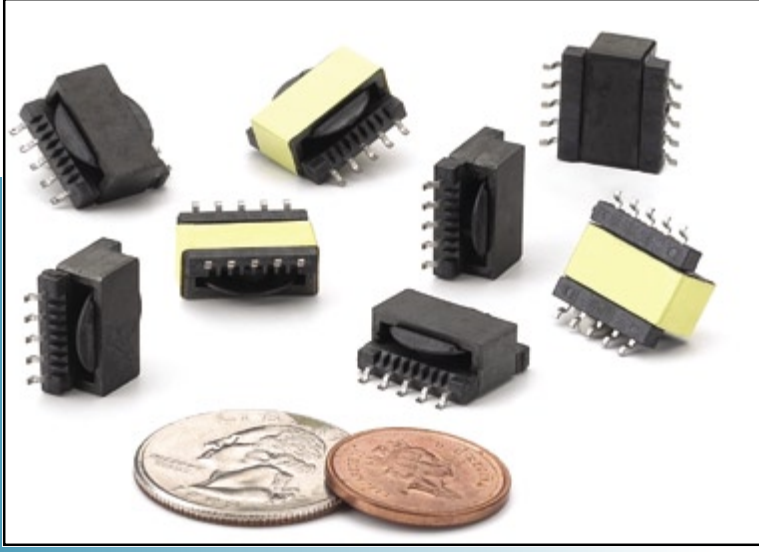
All dimensions are in inches.

Manutech Part Number	Secondary RMS Rating			
	Series Connected V Out	Amps	Parallel Connected V Out	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:

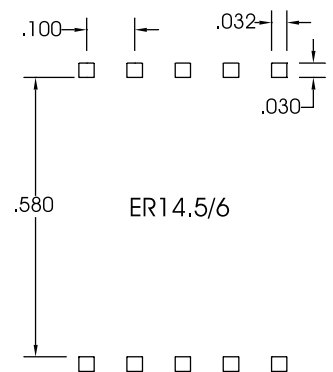
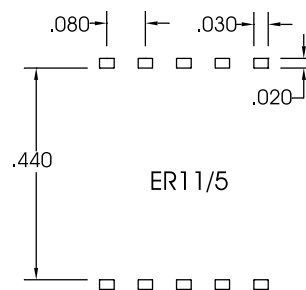
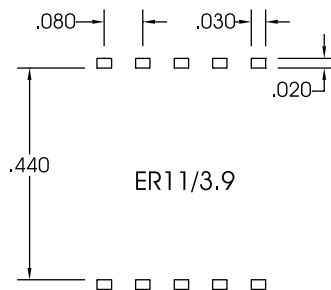
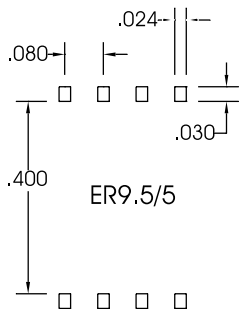
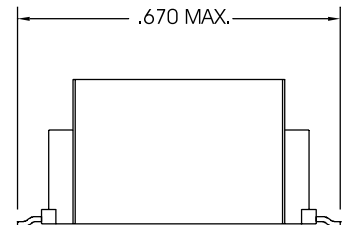
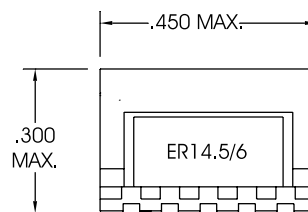
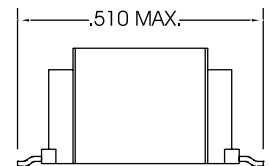
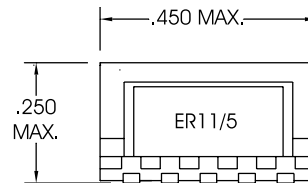
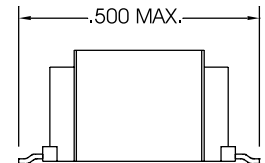
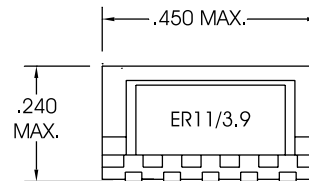
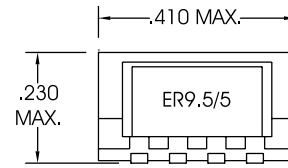
1. When ordering, please add "V" for Vertical or "H" for Horizontal at the end of the part number to indicate your preferred position of steel laminations.

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

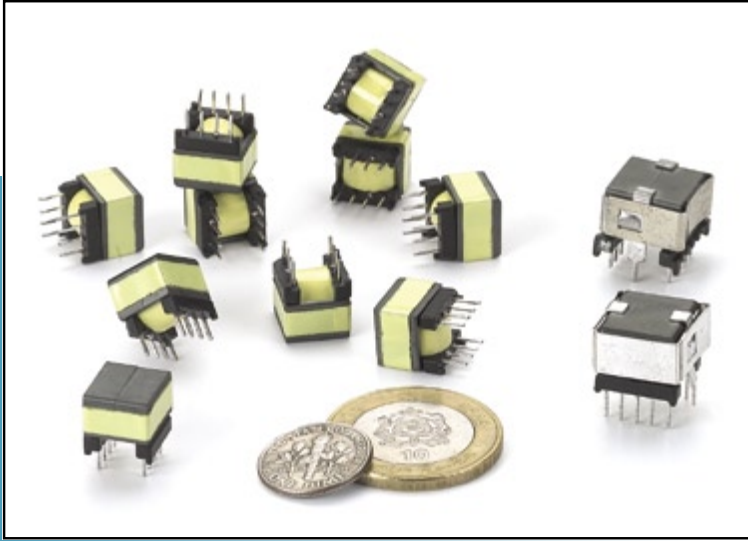


Applications

- Audio
- Pulse
- Switchmode
- Wideband
- Surface Mount

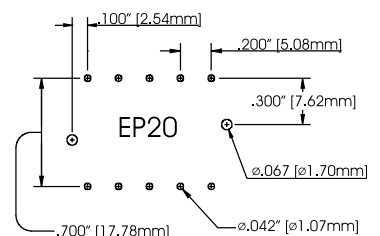
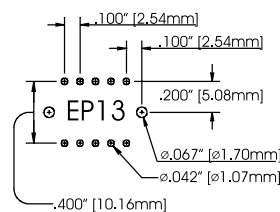
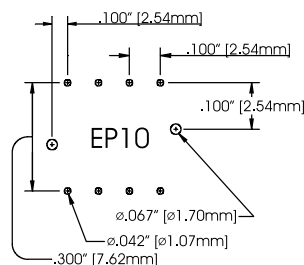
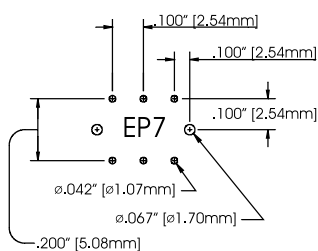
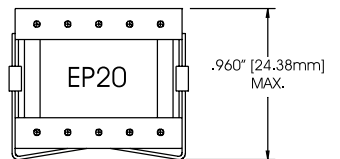
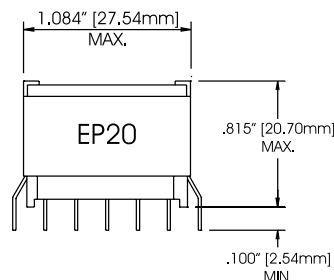
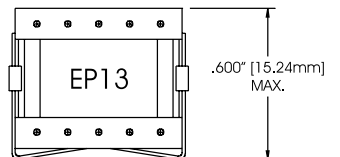
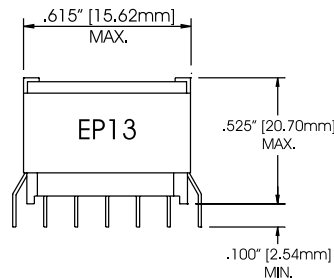
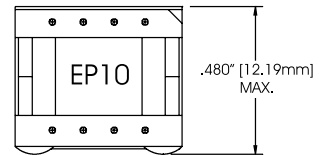
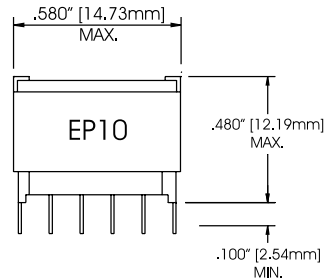
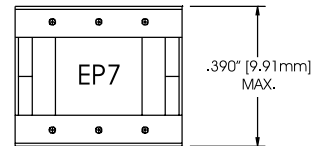
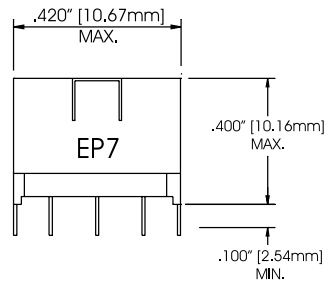


All specifications are subject to change without notice • Can be customized to your specific application

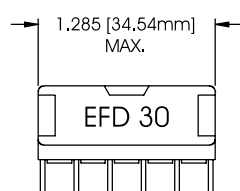
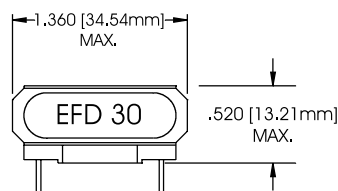
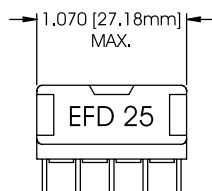
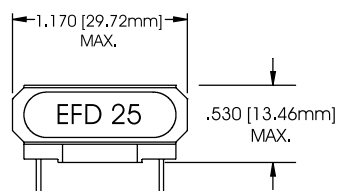
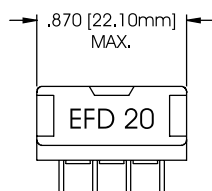
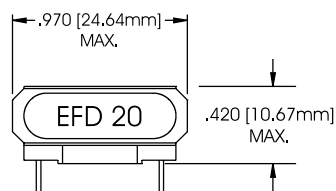
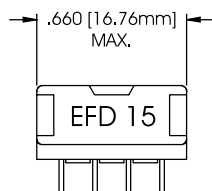
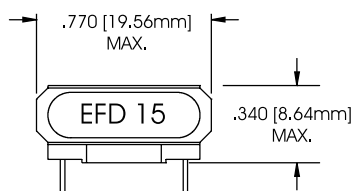


Applications

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

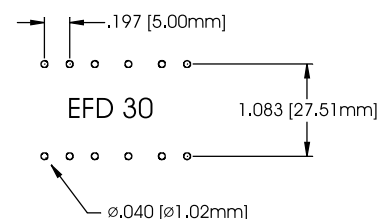
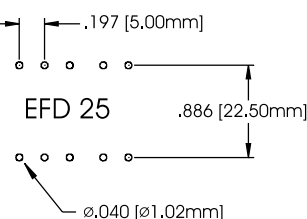
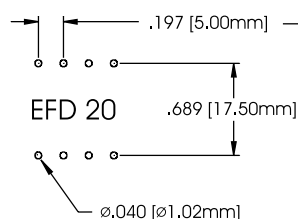
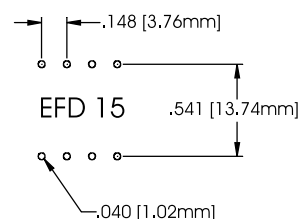


All specifications are subject to change without notice • Can be customized to your specific application



Applications

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

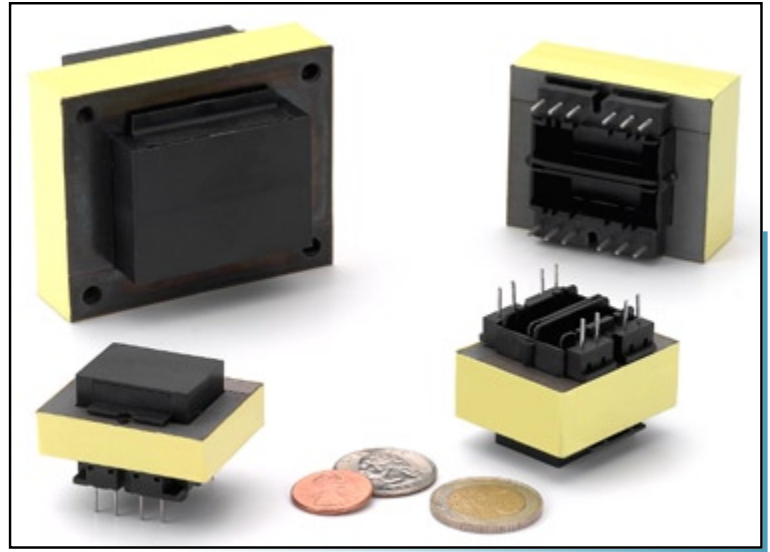


All specifications are subject to change without notice • Can be customized to your specific application

International 50/60 Hz Transformers

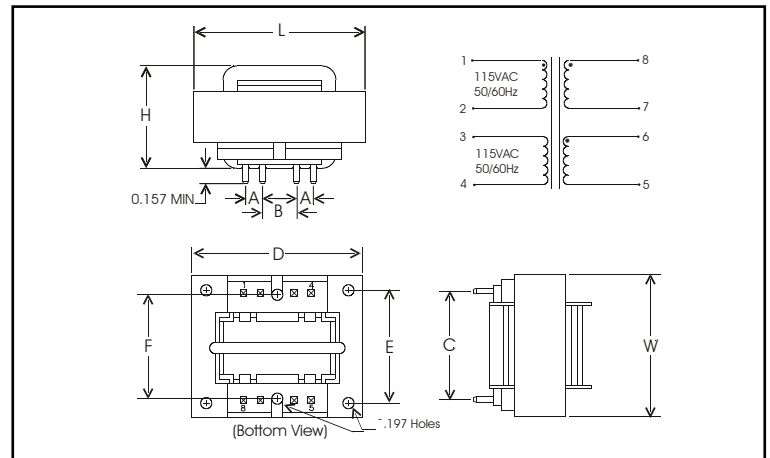
MN603

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



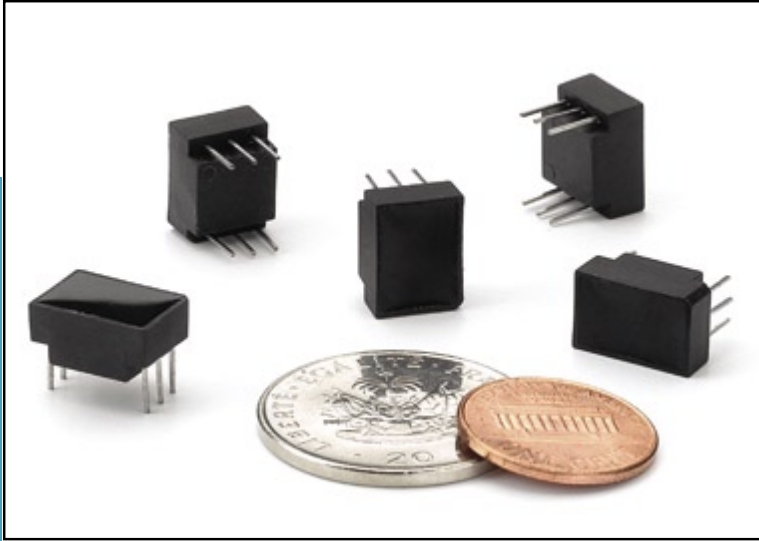
Features

- 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.



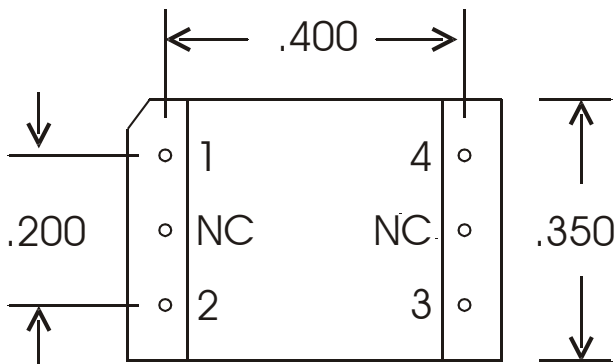
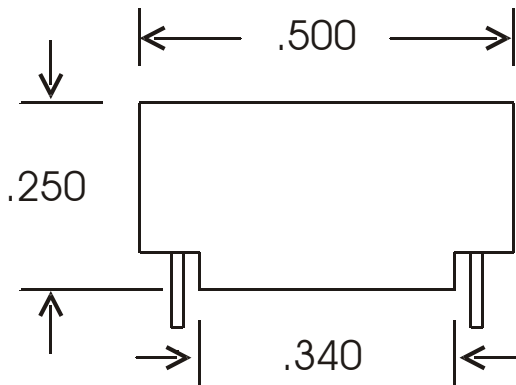
All dimensions are in inches										
Power	L	W	H	A	B	C	D	E	F	Weight (lb)
2.5	1.63	1.32	1.12	0.20	0.25	1.00	-	-	1.06	0.25
5	1.63	1.32	1.37	0.20	0.40	1.00	-	-	1.06	0.37
10	1.88	1.57	1.63	0.20	0.40	1.14	-	-	1.26	0.53
20	2.25	1.88	1.63	0.40	0.40	1.46	-	-	1.50	0.90
30	2.63	2.19	1.83	0.55	0.28	1.68	2.20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

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

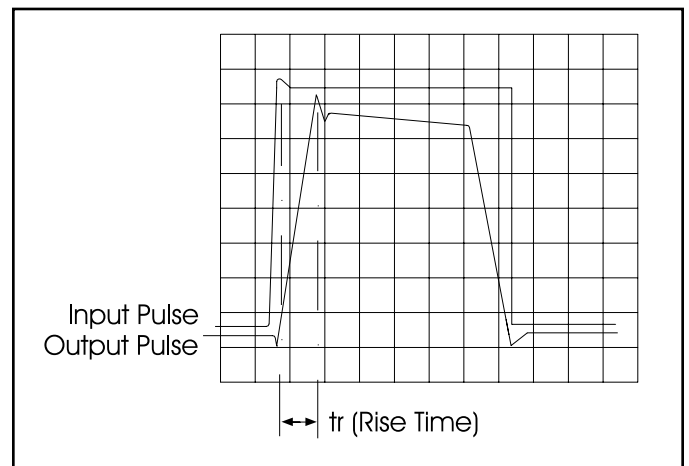
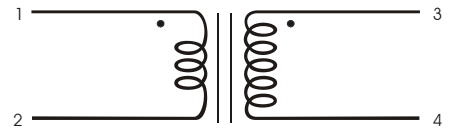


Features

- 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 μ H 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.



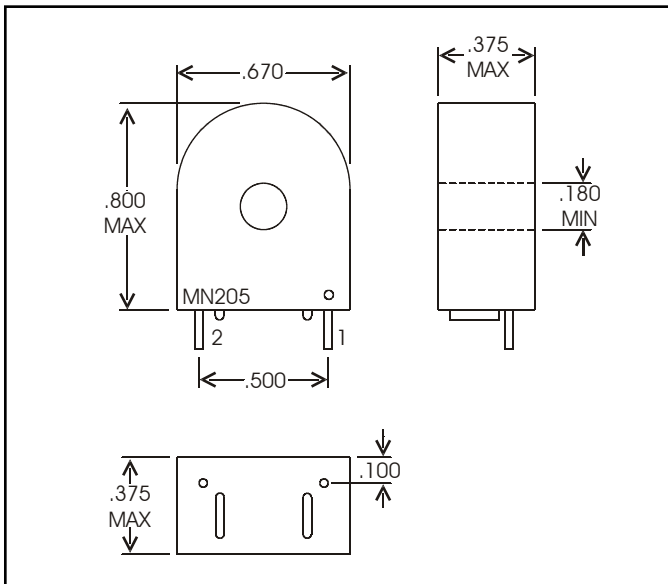
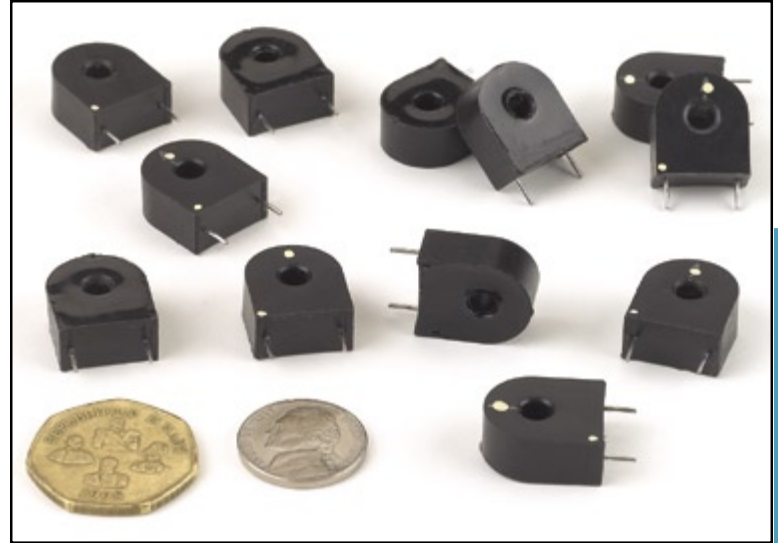
All specifications are subject to change without notice • Can be customized to your specific application

Features

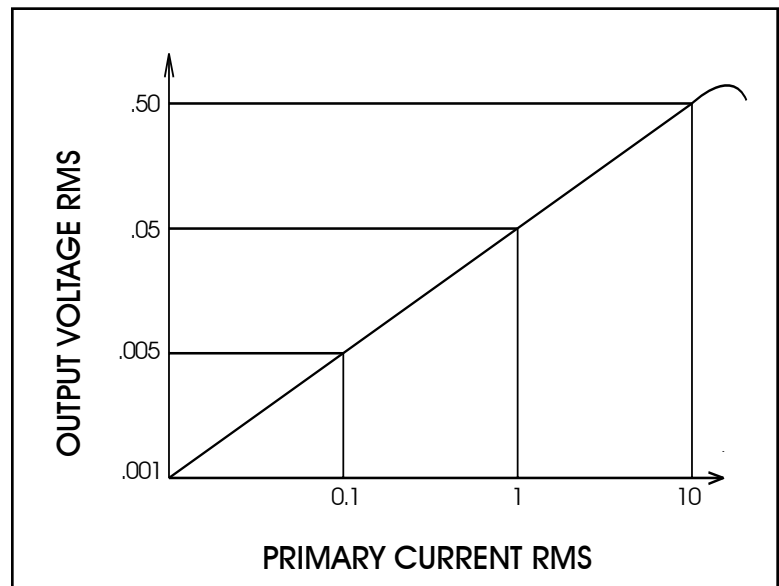
- From 0.1 to 5 Amps @ 50 Hz
- Ultra sensitive for low current measurement.
- UL and VDE recognized class B material.
- Other current rating and specifications available.
- From 50 Hz to 400 Hz.

Specifications

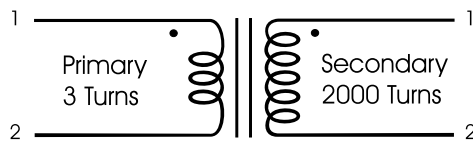
- Secondary 2000 turns.
- Winding DCR: 150 Ohms max.
- Suggested burden resistor: 100 Ohms.
- AC output voltage proportional to AC current input.
- Output at 100 Ohms: 50 mV/Amp.
- Various ranges of output are achievable by using different burden resistors.



All dimensions are in inches.



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

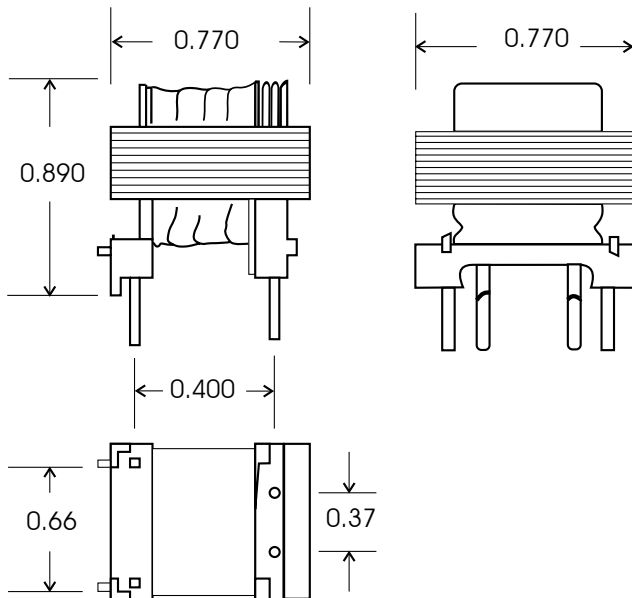


Features

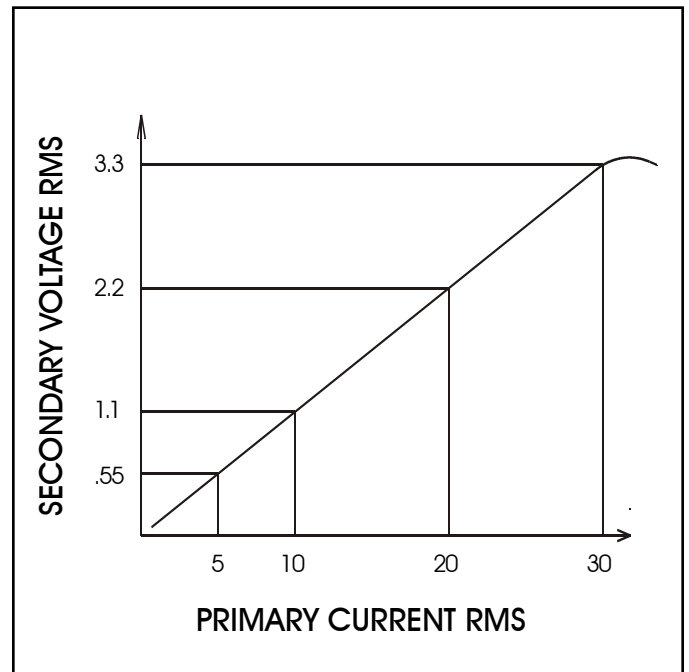
- Current sense transformer from 0.01 to 30 Amps RMS
- Frequency range from 50 Hz to 400 Hz
- Meets IEC 950 standards
- Dielectric strength 3000 volts

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.



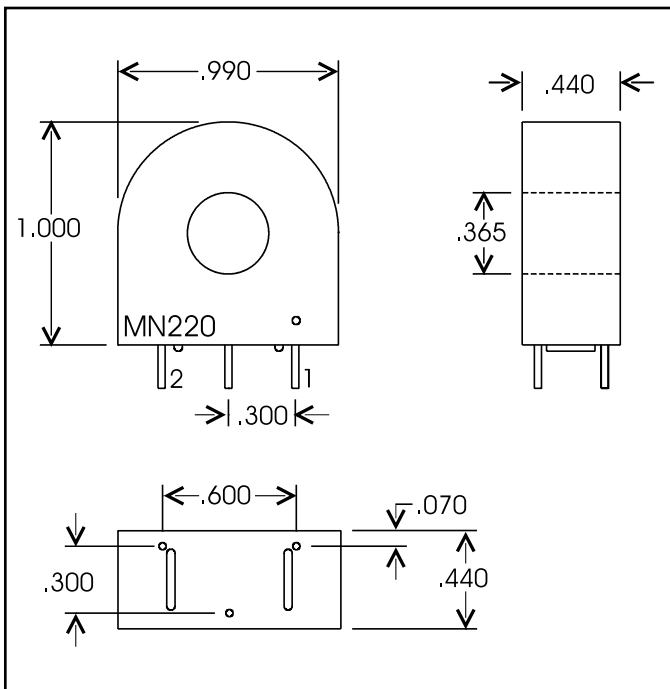
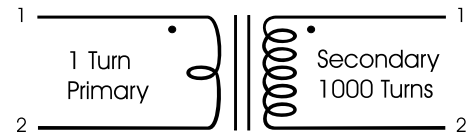
All specifications are subject to change without notice • Can be customized to your specific application

Features

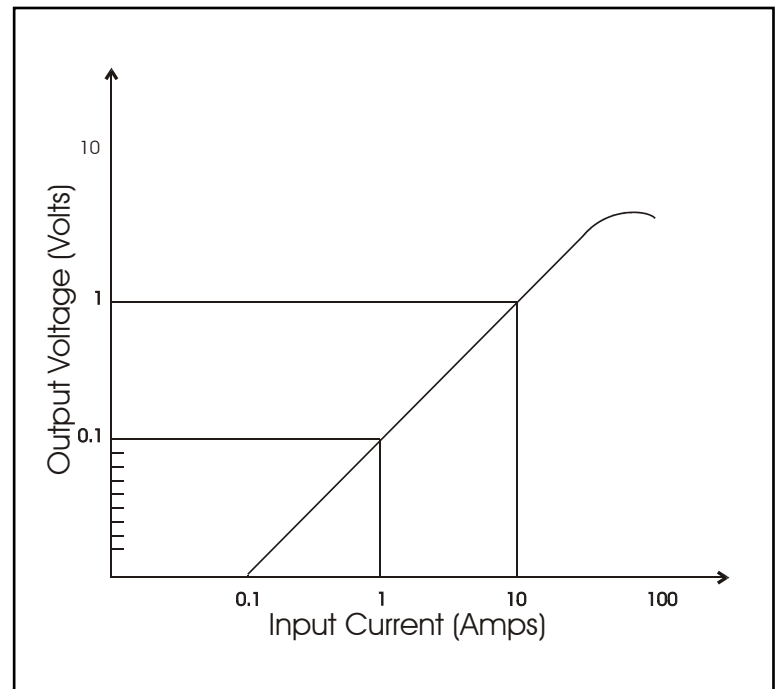
- 1 to 20 Amps @ 50 Hz
- UL and VDE recognized class B material.
- Hi-pot 4000 Volts RMS
- Printed circuit board mounting terminals.
- Other current rating and specifications available.

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.



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

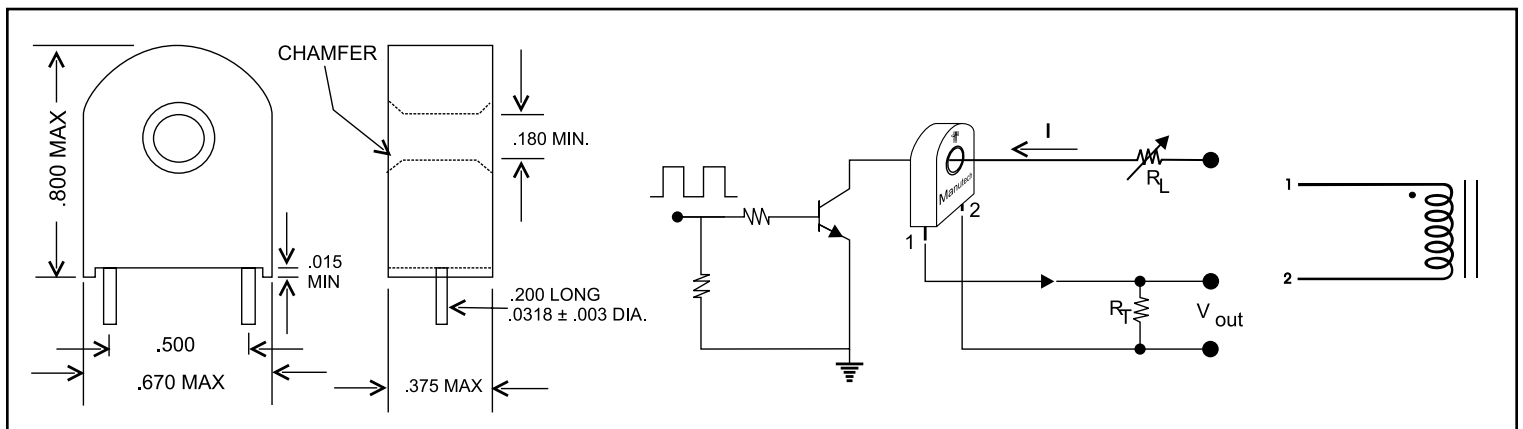


Features

- 50, 100, 200, 400 and 1000 Turns.
- From 1 KHz to 150 KHz.
- Turns ratio accuracy to 1%.
- Dielectric strength 3000 V_{RMS} 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

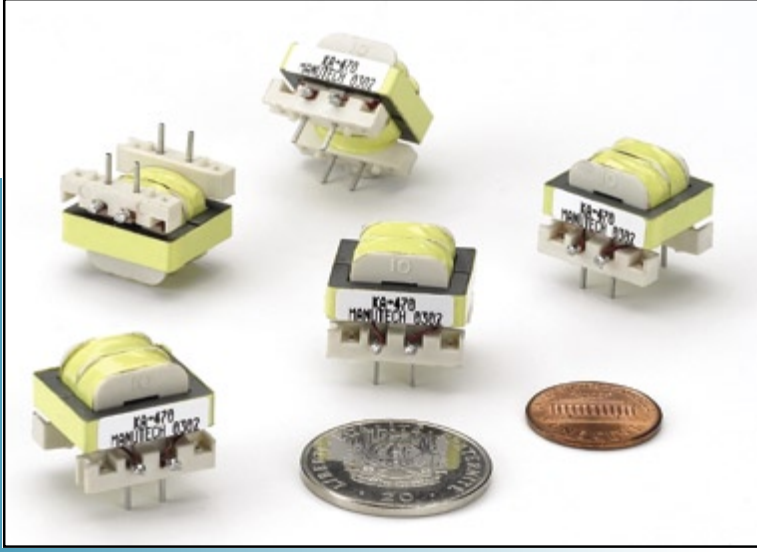
- Molded case using 94 VO material.
- Center hole 0.18 min.
- Complies with class B insulation requirements.



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

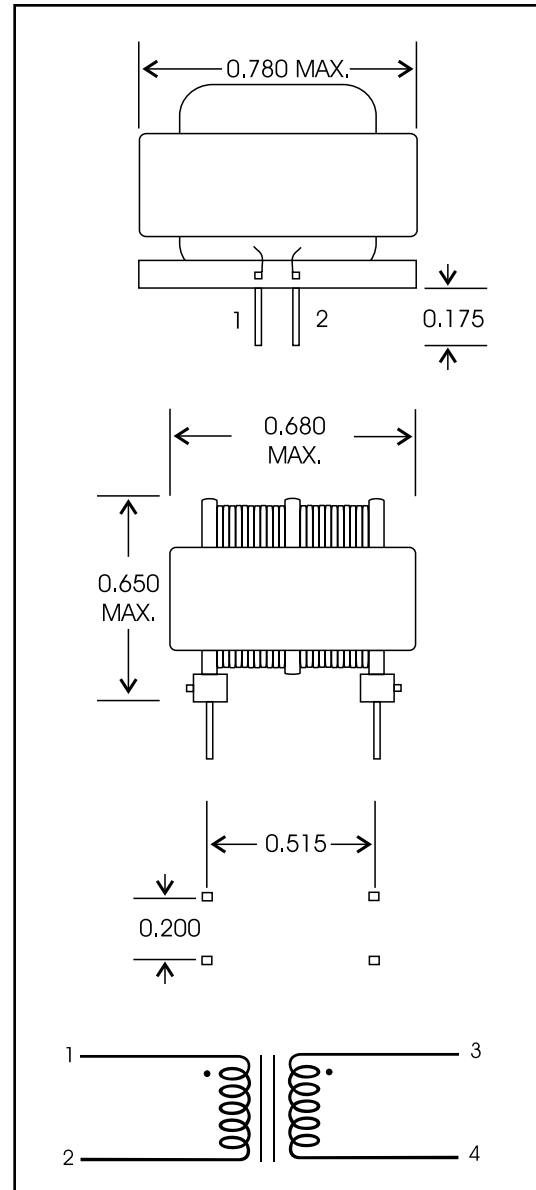
All specifications are subject to change without notice • Can be customized to your specific application



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

Features

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

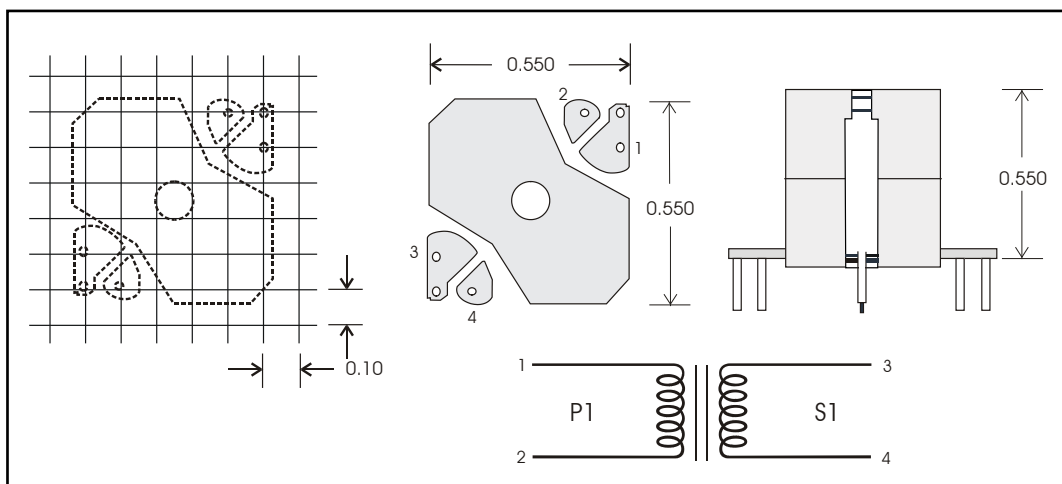
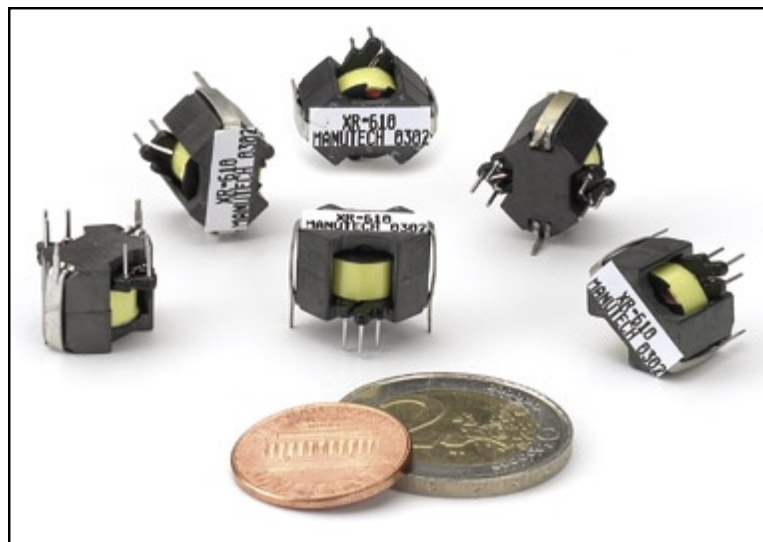


All dimensions are in inches.

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

Features

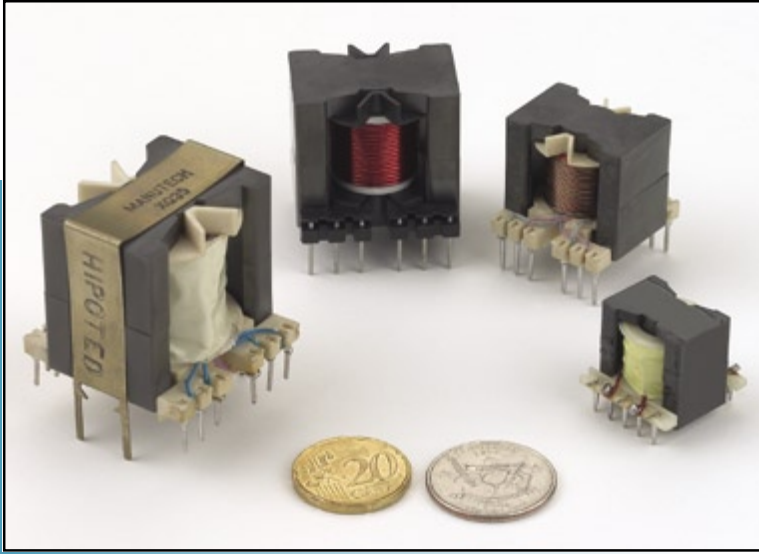
- Due to the rectangular design of the ferrite, the RM core uses approximately 40% less space on the PCB than a pot core design with comparable output.
- Electrical specification is measured at 1 KHz and zero DC current.



All dimensions are in inches.

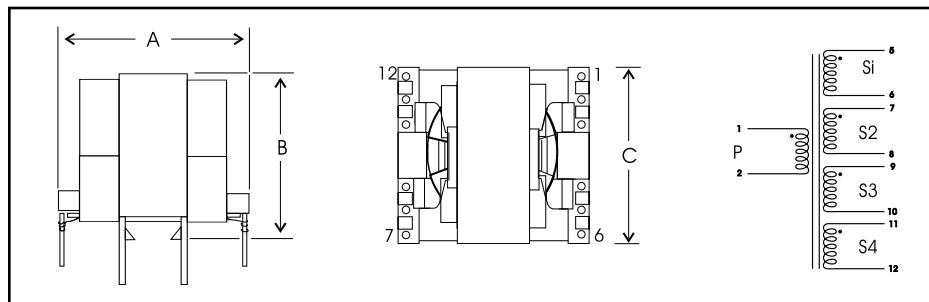
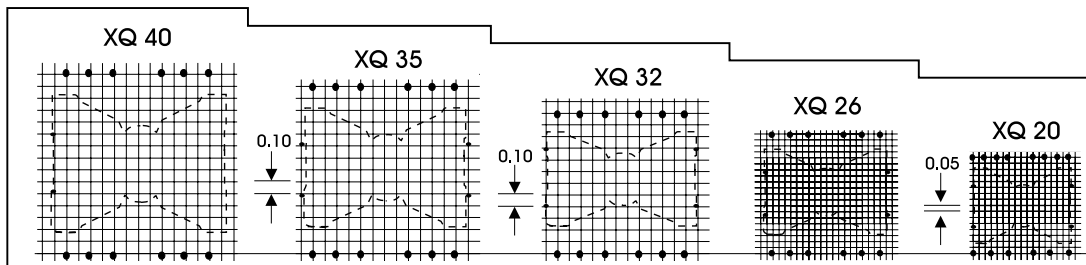
Manutech Part Number	Turns Ratio P1/S1	Primary Inductance L=mH	Primary Resistance Ohm Max.	Secondary Inductance L=mH	Secondary Resistance Ohm Max.
MN740-610	1:10	0.94	0.5	23	9
MN740-615	1:15	0.94	0.5	52	13
MN740-620	1:20	0.94	0.5	94	17
MN740-625	1:25	0.94	0.5	146	22

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



Features

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

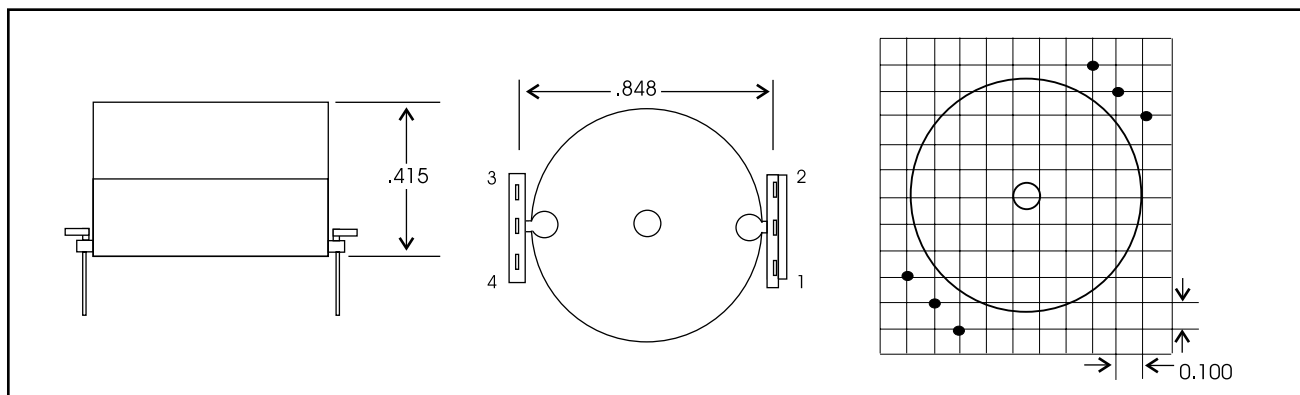
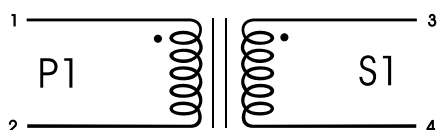


Parameters	Manutech Part Number				
	MN730-20	MN730-26	MN730-32	MN730-35	MN730-40
Wattage (Watt)	100.0	160.00	260.000	350.000	500.000
Operating Frequency (KHz)	100.0	100.00	100.000	100.000	100.000
Primary Voltage (volt)	96.0	96.00	96.000	96.000	96.000
Secondary 1 (Volt)	5.0	5.00	5.000	5.000	5.000
Secondary 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

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

Features

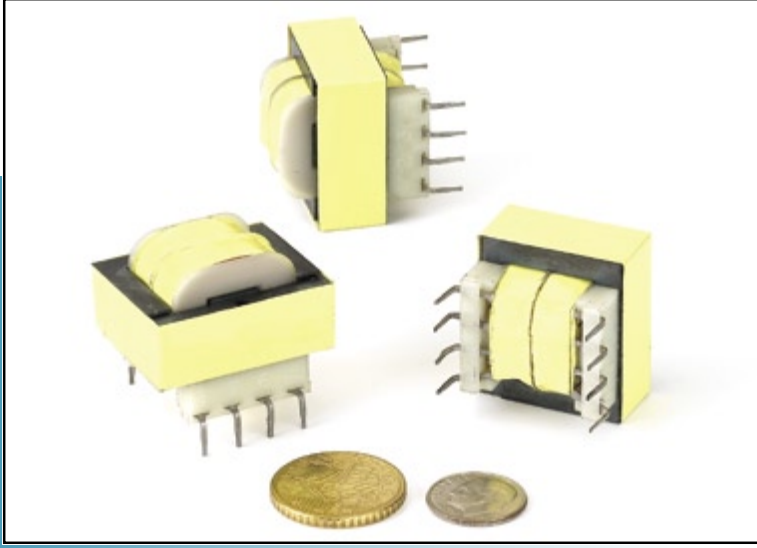
- Winding enclosed inside the core halves, resulting in low EMI/RFI radiation.
- High efficiency due to low leakage inductance.
- Custom designs available.



All dimensions are in inches.

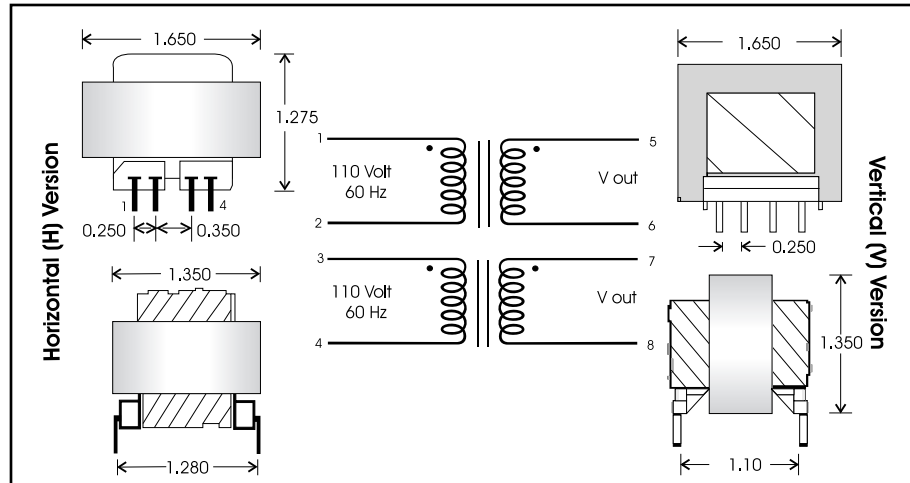
Manutech Part Number	Turn Ratio P1/S1	Primary Inductance L=mH	Primary Resistance Ohm Max.	Secondary Inductance L=mH	Secondary Resistance Ohm Max.
MN718-1	1:1	40	11.2	40	11.2
MN718-2	1:2	10	5.5	50	11.2
MN718-3	1:3	10	5.5	90	17.9
MN718-4	1:4	10	5.5	160	23.9
MN718-5	1:5	10	5.5	250	30.8

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



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.

Manutech Part Number	Secondary RMS Rating			
	Series Connected V Out	Amps	Parallel Connected V Out	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.

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

8181 N.W. 91 Terrace, Bldg. 10
Miami, FL 33166 U.S.A.

Phone 305/888-2800

Fax 305/888-2628

Email Sales@Manutech.us

www.manutech.us

