

Power Toroids - Horizontal or Vertical Mount

Inductance tested at 1 kHz, <10 gauss and 0 ADC

DC Resistance at 25°C

Rated Idc based on 40°C maximum rise from 25°C ambient with 0 Arms

Windings single layered to maximize operating frequency and minimize board space

Self leads solder coated to within 0.050" of seating plane

Other values available on request

Packaging Bulk only

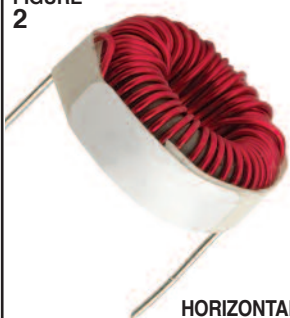
Mounting Standard mounting is self-lead radial per Figure "1". Optional mounting methods are self-leaded horizontal per Figure "2" or vertical base mounted per Figures "3" and "4".

FIGURE
1



STANDARD
VERTICAL

FIGURE
2



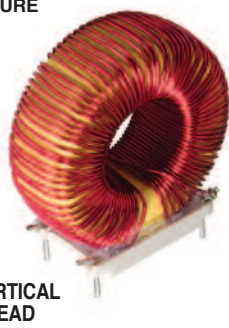
HORIZONTAL

FIGURE
3



VERTICAL
2-LEAD

FIGURE
4



VERTICAL
4-LEAD

*Complete part # must include series # PLUS the dash #

For surface finish information,
refer to www.delevanfinishes.com

Power Inductors

MOUNTING AVAILABLE

FIG. "1" STANDARD VERTICAL

HORIZONTAL

FIG. "3" 2-LEAD VERTICAL

FIG. "4" 4-LEAD VERTICAL

IND. (μH) ±15% @ 1 kHz

DCR MAXIMUM (OHMS)

RATED IDC (AMPS)

DASH NUMBER*

PT SERIES POWER TOROIDS							
PT5-530	5	0.015	6.1	•	•	•	
PT5-700	5	0.012	7.4	•	•	•	
PT5-800	5	0.010	10.6	•	•	•	
PT5-1000	5	0.008	12.8	•	•	•	
PT10-530	10	0.020	4.9	•	•	•	
PT10-680	10	0.015	6.8	•	•	•	
PT10-820	10	0.010	9.3	•	•	•	
PT10-990	10	0.008	13.2	•	•	•	
PT25-680	25	0.035	4.4	•	•	•	
PT25-800	25	0.025	6.6	•	•	•	
PT25-900	25	0.020	7.0	•	•	•	
PT25-1000	25	0.014	10.4	•	•	•	
PT50-780	50	0.050	3.8	•	•	•	
PT50-900	50	0.030	5.6	•	•	•	
PT50-1020	50	0.025	7.0	•	•	•	
PT50-1320	50	0.020	11.0	•	•	•	
PT75-900	75	0.060	3.9	•	•	•	
PT75-980	75	0.040	5.2	•	•	•	
PT75-1260	75	0.035	7.4	•	•	•	
PT75-1550	75	0.025	10.6	•	•	•	
PT100-1000	100	0.080	3.5	•	•	•	
PT100-1100	100	0.050	5.1	•	•	•	
PT100-1260	100	0.035	7.8	•	•	•	
PT100-1550	100	0.028	10.3	•	•	•	
PT150-1040	150	0.100	3.4	•	•	•	
PT150-1250	150	0.060	5.7	•	•	•	
PT150-1500	150	0.050	7.7	•	•	•	•
PT150-2050	150	0.040	12.3	•	•	•	•
PT250-1200	250	0.130	3.8	•	•	•	•
PT250-1500	250	0.080	6.1	•	•	•	•
PT250-1800	250	0.055	9.1	•	•	•	•
PT300-1200	300	0.150	3.3	•	•	•	•
PT300-1500	300	0.100	5.5	•	•	•	•
PT300-1750	300	0.075	7.3	•	•	•	•
PT400-1200	400	0.250	2.4	•	•	•	•
PT400-1500	400	0.180	4.7	•	•	•	•
PT400-1750	400	0.110	6.0	•	•	•	•
PT500-1450	500	0.220	3.4	•	•	•	•
PT500-1750	500	0.160	5.0	•	•	•	•
PT500-2000	500	0.090	8.0	•	•	•	•
PT750-1400	750	0.350	2.6	•	•	•	•
PT750-1700	750	0.280	3.7	•	•	•	•
PT750-2050	750	0.150	6.4	•	•	•	•
PT1000-1400	1000	0.620	1.8	•	•	•	•
PT1000-1750	1000	0.420	3.1	•	•	•	•
PT1000-2050	1000	0.200	5.9	•	•	•	•

Notes to Figure 5 (Page 100) The PT Toroid Series inductance is specified at AC and DC signal levels which have no significant effect on the permeability of the powdered iron toroidal core. Superimposed AC and DC voltages will change the permeability and therefore the inductance, under operating conditions. Typically, DC currents will reduce the inductance, while AC signals will increase the inductance up to a point, before beginning to decrease. Supporting information is provided, detailing the AC or DC effects upon each part. Saturation resulting from DC currents is specified with waveform having less than a 1% ripple content. When considering the AC waveform, both the frequency and voltage level must be taken into account. As an aid in defining what effect the alternating sine wave signal will have, the voltage/frequency factor curve can be used. To determine what change of inductance can be expected at a given voltage level and frequency, simply divide the sinusoidal RMS voltage by the frequency. The voltage is in volts and the frequency is in hertz. As an example, if using part number PT25-680 at a 1VRMS signal level, and a frequency of 25KHz, the voltage/frequency factor is calculated to be: 1VRMS/25,000Hz = 40 x 10⁻⁶. Referring to the graph, a 39% increase in inductance would be expected.

Notes to Figure 6 (Page 100) Typical saturation effects as a function of DC flowing through the part. Data is representative of a DC waveform with less than 1% ripple, and an AC waveform less than 10 gauss.

Note This information is intended to be used in assisting the designer in part selection. Each operating application may contain other variables which must be considered in part selection; such as temperature effects, waveform distortion, etc.... Delevan Sales/Engineering staff is available to provide information as needed to fit each application.

PT SERIES (continued)

Power Inductors

Power Toroids

ELECTRICAL PHYSICAL PARAMETERS

IND. (μH) ± 15% @ 1 kHz
DCR MAX. (OHMS)
RATED IDC (Amps)
A Max. Inches mm
B Max. Inches mm
C Nominal Inches mm
D Min. Inches mm
E Nominal Inches mm
F Nominal Inches mm

SERIES PT IRON CORE														
PT5-530	5	0.015	6.1	0.53	13.46	0.23	5.84	0.17	4.32	0.50	12.7	0.025	0.64	0.450
PT5-700	5	0.012	7.4	0.70	17.78	0.33	8.38	0.24	6.10	0.50	12.7	0.032	0.81	0.600
PT5-800	5	0.010	10.6	0.80	20.32	0.36	9.14	0.31	7.87	0.50	12.7	0.040	1.02	0.720
PT5-1000	5	0.008	12.8	1.00	25.40	0.40	10.16	0.34	8.64	0.50	12.7	0.051	1.30	0.950
PT10-530	10	0.020	4.9	0.53	13.46	0.23	5.84	0.17	4.32	0.50	12.7	0.025	0.64	0.450
PT10-680	10	0.015	6.8	0.68	17.27	0.33	8.38	0.24	6.10	0.50	12.7	0.032	0.81	0.600
PT10-820	10	0.010	9.3	0.82	20.83	0.37	9.40	0.29	7.37	0.50	12.7	0.040	1.02	0.720
PT10-990	10	0.008	13.2	0.99	25.15	0.40	10.16	0.34	8.64	0.50	12.7	0.051	1.30	0.950
PT25-680	25	0.035	4.4	0.68	17.27	0.37	9.40	0.29	7.37	0.50	12.7	0.025	0.64	0.580
PT25-800	25	0.025	6.6	0.80	20.32	0.35	8.89	0.28	7.11	0.50	12.7	0.032	0.81	0.700
PT25-900	25	0.020	7.0	0.90	22.86	0.40	10.16	0.30	7.62	0.50	12.7	0.040	1.02	0.820
PT25-1000	25	0.014	10.4	1.00	25.40	0.40	10.16	0.37	9.40	0.50	12.7	0.051	1.30	0.950
PT50-780	50	0.050	3.8	0.78	19.81	0.36	9.14	0.27	6.86	0.50	12.7	0.025	0.64	0.680
PT50-900	50	0.030	5.6	0.90	22.86	0.38	9.65	0.30	7.62	0.50	12.7	0.032	0.81	0.790
PT50-1020	50	0.025	7.0	1.02	25.91	0.62	15.75	0.43	10.92	0.50	12.7	0.040	1.02	0.920
PT50-1320	50	0.020	11.0	1.32	33.53	0.63	16.00	0.53	13.46	0.50	12.7	0.051	1.30	1.220
PT75-900	75	0.060	3.9	0.90	22.86	0.36	9.14	0.29	7.37	0.50	12.7	0.025	0.64	0.770
PT75-980	75	0.040	5.2	0.98	24.89	0.38	9.65	0.30	7.62	0.50	12.7	0.032	0.81	0.890
PT75-1260	75	0.035	7.4	1.26	32.00	0.60	15.24	0.49	12.45	0.50	12.7	0.040	1.02	1.200
PT75-1550	75	0.025	10.6	1.55	39.37	0.64	16.26	0.53	13.46	0.50	12.7	0.051	1.30	1.500
PT100-1000	100	0.080	3.5	1.00	25.40	0.36	9.14	0.29	7.37	0.50	12.7	0.025	0.64	0.880
PT100-1100	100	0.050	5.1	1.10	27.94	0.50	12.70	0.42	10.67	0.50	12.7	0.032	0.81	0.890
PT100-1260	100	0.035	7.8	1.26	32.00	0.60	15.24	0.49	12.45	0.50	12.7	0.040	1.02	1.200
PT100-1550	100	0.028	10.3	1.55	39.37	0.64	16.26	0.53	13.46	0.50	12.7	0.051	1.30	1.500
PT150-1040	150	0.100	3.4	1.04	26.42	0.50	12.70	0.41	10.41	0.50	12.7	0.025	0.64	0.880
PT150-1250	150	0.060	5.7	1.25	31.75	0.58	14.73	0.48	12.19	0.50	12.7	0.032	0.81	1.160
PT150-1500	150	0.050	7.7	1.50	38.10	0.62	15.75	0.50	12.70	0.50	12.7	0.040	1.02	1.420
PT150-2050	150	0.040	12.3	2.05	52.07	0.92	23.37	0.80	20.32	0.50	12.7	0.051	1.30	2.000
PT250-1200	250	0.130	3.8	1.20	30.48	0.55	13.97	0.49	12.45	0.50	12.7	0.025	0.64	1.200
PT250-1500	250	0.080	6.1	1.50	38.10	0.60	15.24	0.50	12.70	0.50	12.7	0.036	0.91	1.450
PT250-1800	250	0.055	9.1	1.80	45.72	0.77	19.56	0.69	17.53	0.50	12.7	0.051	1.30	1.750
PT300-1200	300	0.150	3.3	1.20	30.48	0.55	13.97	0.48	12.19	0.50	12.7	0.025	0.64	1.200
PT300-1500	300	0.100	5.5	1.50	38.10	0.60	15.24	0.51	12.95	0.50	12.7	0.032	0.81	1.400
PT300-1750	300	0.075	7.3	1.75	44.45	0.76	19.30	0.65	16.51	0.50	12.7	0.045	1.14	1.750
PT400-1200	400	0.250	2.4	1.20	30.48	0.55	13.97	0.48	12.19	0.50	12.7	0.020	0.51	1.150
PT400-1500	400	0.180	4.7	1.50	38.10	0.60	15.24	0.50	12.70	0.50	12.7	0.025	0.64	1.400
PT400-1750	400	0.110	6.0	1.75	44.45	0.78	19.81	0.70	17.78	0.50	12.7	0.040	1.02	1.750
PT500-1450	500	0.220	3.4	1.45	36.83	0.58	14.73	0.50	12.70	0.50	12.7	0.025	0.64	1.400
PT500-1750	500	0.160	5.0	1.75	44.45	0.75	19.05	0.62	15.75	0.50	12.7	0.036	0.91	1.700
PT500-2000	500	0.090	8.0	2.05	52.07	0.88	22.35	0.76	19.30	0.50	12.7	0.045	1.14	2.000
PT750-1400	750	0.350	2.6	1.40	35.56	0.55	13.97	0.48	12.19	0.50	12.7	0.020	0.51	1.400
PT750-1700	750	0.280	3.7	1.70	43.18	0.70	17.78	0.62	15.75	0.50	12.7	0.025	0.64	1.660
PT750-2050	750	0.150	6.4	2.05	52.07	0.85	21.59	0.78	19.81	0.50	12.7	0.036	0.91	2.000
PT1000-1400	1000	0.620	1.8	1.40	35.56	0.55	13.97	0.48	12.19	0.50	12.7	0.016	0.41	1.360
PT1000-1750	1000	0.420	3.1	1.75	44.45	0.70	17.78	0.62	15.75	0.50	12.7	0.025	0.64	1.660
PT1000-2050	1000	0.200	5.9	2.05	52.07	0.85	21.59	0.78	19.81	0.50	12.7	0.032	0.81	2.000

Note: Vertical configuration is standard; add suffix "HM" for horizontal mounting

FIGURE 1: STANDARD VERTICAL MOUNT

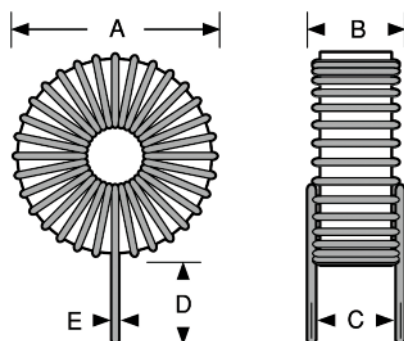
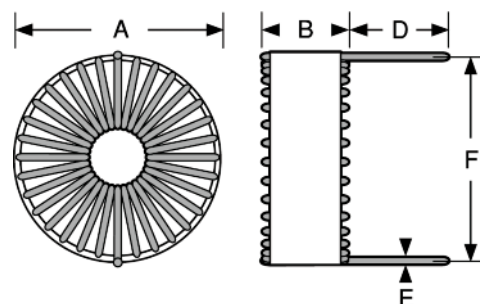


FIGURE 2: HORIZONTAL MOUNT



PT SERIES (continued)

Power Inductors

Power Toroids

PART NUMBER	IND. (μH) ± 15% @ 1 kHz	DCR MAX. (OHMS)	RATED IDC (Amps)	FIGURE#	PHYSICAL PARAMETERS									
					A Max.	B Max.	C Typical	D Typical	E Max.	F Typical				
					Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
SERIES PT VERTICAL MOUNT IRON CORE														
PT5-530-VM	5	0.015	6.1	3	0.580	14.73	0.340	8.64	0.220	5.59	0.025	0.63	0.640	16.26
PT5-700-VM	5	0.012	7.4	3	0.650	16.51	0.450	11.43	0.300	7.62	0.032	0.81	0.810	20.57
PT5-800-VM	5	0.010	10.6	3	0.830	21.08	0.450	11.43	0.300	7.62	0.040	1.02	0.910	23.11
PT10-530-VM	10	0.020	4.9	3	0.580	14.73	0.340	8.64	0.220	5.59	0.025	0.63	0.640	16.26
PT10-680-VM	10	0.015	6.8	3	0.650	16.51	0.450	11.43	0.300	7.62	0.032	0.81	0.790	20.07
PT10-820-VM	10	0.010	9.3	3	0.830	21.08	0.450	11.43	0.300	7.62	0.040	1.02	0.930	23.62
PT25-680-VM	25	0.035	4.4	3	0.650	16.51	0.450	11.43	0.300	7.62	0.025	0.63	0.790	20.07
PT25-800-VM	25	0.025	6.6	3	0.830	21.08	0.450	11.43	0.300	7.62	0.032	0.81	0.910	23.11
PT25-900-VM	25	0.020	7.0	3	0.950	24.13	0.600	15.24	0.450	11.43	0.040	1.02	1.010	25.65
PT50-780-VM	50	0.050	3.8	3	0.830	21.08	0.450	11.43	0.300	7.62	0.025	0.63	0.890	22.61
PT50-900-VM	50	0.030	5.6	3	0.830	21.08	0.450	11.43	0.300	7.62	0.032	0.81	1.110	28.19
PT50-1020-VM	50	0.025	7.0	3	1.250	31.75	0.700	17.78	0.500	12.70	0.040	1.02	1.130	28.70
PT75-900-VM	75	0.060	3.9	3	0.950	24.13	0.600	15.24	0.450	11.43	0.025	0.63	1.010	25.65
PT75-980-VM	75	0.040	5.2	3	0.950	24.13	0.600	15.24	0.450	11.43	0.032	0.81	1.090	27.69
PT75-1260-VM	75	0.035	7.4	3	1.250	31.75	0.700	17.78	0.500	12.70	0.040	1.02	1.390	35.31
PT100-1000-VM	100	0.080	3.5	3	0.950	24.13	0.600	15.24	0.450	11.43	0.025	0.63	1.130	28.70
PT100-1100-VM	100	0.050	5.1	3	0.950	24.13	0.600	15.24	0.450	11.43	0.032	0.81	1.230	31.24
PT100-1260-VM	100	0.035	7.8	3	1.250	31.75	0.700	17.78	0.500	12.70	0.040	1.02	1.390	35.31
PT150-1040-VM	150	0.100	3.4	3	0.950	24.13	0.600	15.24	0.450	11.43	0.025	0.63	1.170	29.72
PT150-1250-VM	150	0.060	5.7	3	1.250	31.75	0.700	17.78	0.500	12.70	0.032	0.81	1.380	35.05
PT150-1500-VM	150	0.050	7.7	4	1.500	38.10	0.800	20.32	0.600	15.24	0.050	1.27	1.630	41.40
PT250-1200-VM	250	0.130	3.8	3	1.250	31.75	0.700	17.78	0.500	12.70	0.025	0.63	1.330	33.78
PT250-1500-VM	250	0.080	6.1	4	1.500	38.10	0.800	20.32	0.600	15.24	0.050	1.27	1.630	41.40
PT300-1200-VM	300	0.150	3.3	3	1.250	31.75	0.700	17.78	0.500	12.70	0.025	0.63	1.330	33.78
PT300-1500-VM	300	0.100	5.5	4	1.500	38.10	0.800	20.32	0.600	15.24	0.050	1.27	1.630	41.40
PT400-1200-VM	400	0.250	2.4	3	1.250	31.75	0.700	17.78	0.500	12.70	0.020	0.51	1.330	33.78
PT400-1500-VM	400	0.180	4.7	4	1.500	38.10	0.800	20.32	0.600	15.24	0.050	1.27	1.630	41.40
PT400-1750-VM	400	0.110	6.0	4	1.750	44.45	0.900	22.86	0.700	17.78	0.050	1.27	1.880	47.75
PT500-1450-VM	500	0.220	3.4	4	1.450	36.83	0.800	20.32	0.600	15.24	0.050	1.27	1.580	40.13
PT500-1750-VM	500	0.160	5.0	4	1.750	44.45	0.900	22.86	0.700	17.78	0.050	1.27	1.880	47.75
PT750-1400-VM	750	0.350	2.6	4	1.400	35.56	0.800	20.32	0.600	15.24	0.050	1.27	1.530	38.86
PT750-1700-VM	750	0.280	3.7	4	1.700	43.18	0.900	22.86	0.700	17.78	0.050	1.27	1.830	46.48
PT750-2050-VM	750	0.150	6.4	4	2.050	52.07	0.900	22.86	0.700	17.78	0.050	1.27	2.180	55.37
PT1000-1400-VM	1000	0.620	1.8	4	1.400	35.56	0.800	20.32	0.600	15.24	0.050	1.27	1.530	38.86
PT1000-1750-VM	1000	0.420	3.1	4	1.750	44.45	0.900	22.86	0.700	17.78	0.050	1.27	1.980	50.29
PT1000-2050-VM	1000	0.200	5.9	4	2.050	52.07	0.900	22.86	0.700	17.78	0.050	1.27	2.180	55.37

FIGURE 3: 2-LEAD VERTICAL BASE MOUNT

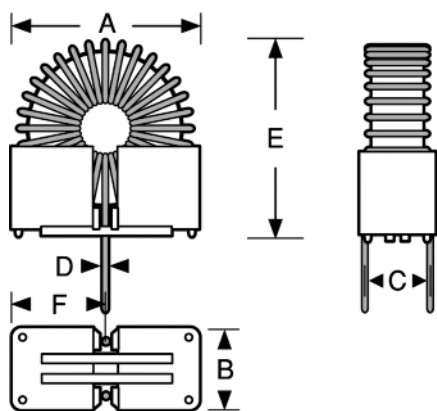
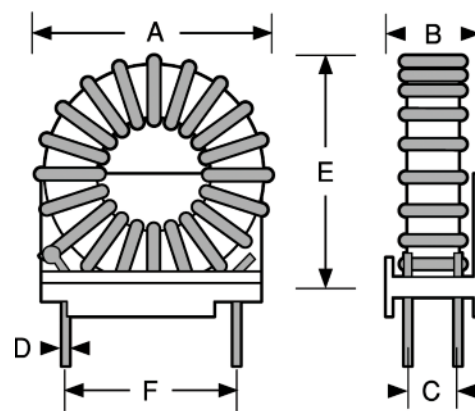
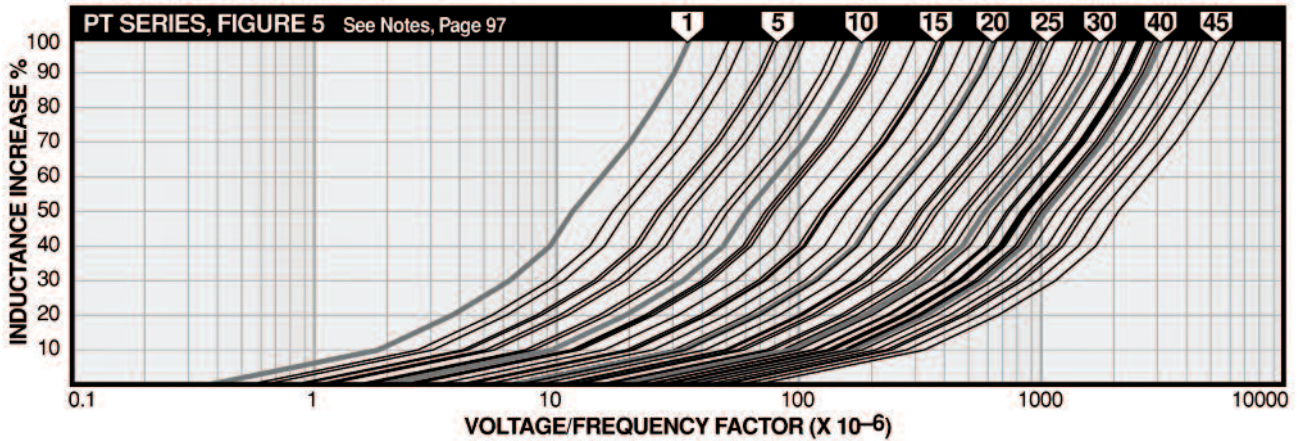


FIGURE 4: 4-LEAD VERTICAL BASE MOUNT

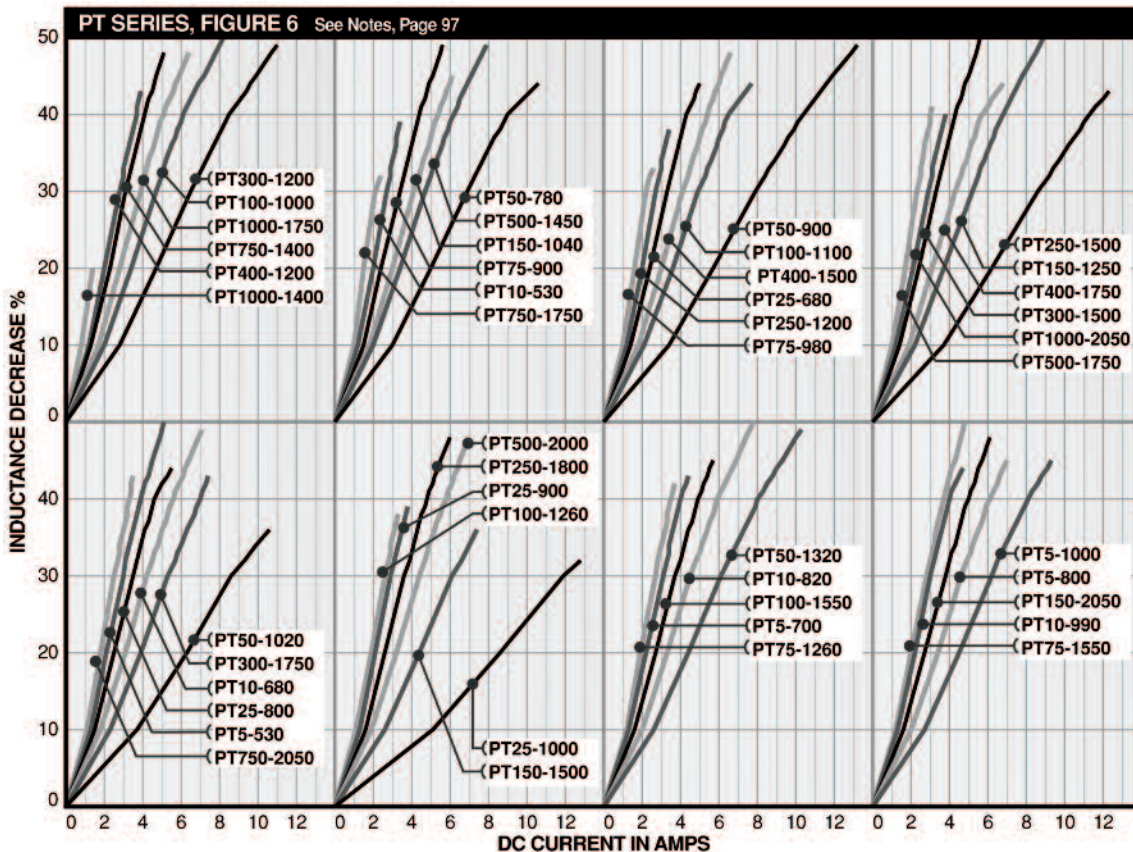


**Power Toroids -
Horizontal or Vertical Mount**



KEY TO FIGURE 5 CURVE NUMBERS Graphs apply to all mounting styles. For more detailed graphs, contact factory.

- | | | | | | | | |
|-------------|---------------|----------------|----------------|----------------|----------------|-----------------|-----------------|
| 1) PT5-530 | 7) PT10-820 | 13) PT50-780 | 19) PT100-1100 | 25) PT100-1550 | 31) PT400-1200 | 37) PT500-1450 | 43) PT500-2000 |
| 2) PT10-530 | 8) PT10-990 | 14) PT50-900 | 20) PT50-1320 | 26) PT150-1250 | 32) PT300-1500 | 38) PT400-1750 | 44) PT1000-1750 |
| 3) PT5-700 | 9) PT25-680 | 15) PT75-900 | 21) PT150-1040 | 27) PT150-1500 | 33) PT400-1500 | 39) PT750-1400 | 45) PT750-2050 |
| 4) PT5-800 | 10) PT25-800 | 16) PT75-980 | 22) PT75-1260 | 28) PT250-1200 | 34) PT250-1800 | 40) PT500-1750 | 46) PT1000-2050 |
| 5) PT10-680 | 11) PT25-900 | 17) PT50-1020 | 23) PT100-1260 | 29) PT300-1200 | 35) PT150-2050 | 41) PT1000-1400 | |
| 6) PT5-1000 | 12) PT25-1000 | 18) PT100-1000 | 24) PT75-1550 | 30) PT250-1500 | 36) PT300-1750 | 42) PT750-1750 | |



For more detailed graphs, contact factory



**Стандарт
Электрон
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

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Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

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С нами вы становитесь еще успешнее!

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