



**Premier
Magnetics Inc.**

"INNOVATORS IN MAGNETICS TECHNOLOGY"

FEATURES

- ① Powdered Iron Toroidal Construction.
- ② Optimized For Use as High Frequency DC Chokes.
- ③ Temp Rise Data: Ripple Currents $\leq 10\%$ @ 100KHz
- ④ Low Cost Self Lead Construction.

LOW COST TOROIDAL POWER INDUCTORS

NOTES: Temp Rise T1 & T2 are calculated.

- 1) L_n = Nominal Ind. @ 0.0Adc
L1 = Nominal Ind. @ I1 Adc, T1 Temp Rise
L2 = Nominal Ind. @ I2 Adc, T2 Temp Rise
- 2) I1 Represents a 1-20% Drop in L_n
I2 Represents a 20-40% Drop in L

ELECTRICAL SPECIFICATIONS AT 25C - OPERATING TEMPERATURE RANGE -25C TO +80C

PART NUMBER	L _n (mH)	DCR	L1 @ I1		T1	L2 @ I2		T2	REF. DIMENSIONS IN INCHES				
		(Ohm)	(mH)	(dc A)	(OC)	(mH)	(dc A)	(OC)	A	C	VT/B	HT/B	PIN OD
VTP-00301	3	0.02	3	1	10	2.8	2	30	0.32	0.15	0.13	0.3	0.016
VTP-01001	10	0.03	10	1	12	9	2	46	0.33	0.24	0.22	0.31	0.013
VTP-02001	20	0.04	20	1	7	17	2	27	0.46	0.25	0.23	0.43	0.018
VTP-05001	50	0.06	46	1	6	40	2	23	0.6	0.32	0.3	0.57	0.02
VTP-10001	100	0.11	91	1	9	75	2	34	0.6	0.46	0.43	0.57	0.018
VTP-12001	120	0.08	115	1	5	102	2	14	0.95	0.53	0.45	0.9	0.025
VTP-25001	250	0.17	229	1	7	188	2	27	0.93	0.46	0.44	0.9	0.02
VTP-01002	10	0.02	10	2	12	8	4	48	0.47	0.26	0.24	0.44	0.022
VTP-02002	20	0.02	18	2	11	14	4	43	0.61	0.27	0.24	0.58	0.025
VTP-05002	50	0.03	48	2	5	41	4	20	0.95	0.49	0.45	0.91	0.032
VTP-07002	70	0.04	61	2	11	48	4	43	0.82	0.36	0.31	0.82	0.025
VTP-10002	100	0.04	89	2	6	72	4	24	0.95	0.63	0.59	0.91	0.032
VTP-25002	250	0.07	222	2	6	178	4	24	1.24	0.71	0.67	1.2	0.032
VTP-01005	10	0.01	10	5	6	8	10	22	1	0.53	0.47	0.93	0.051
VTP-02005	20	0.01	18	5	7	14	10	27	1	0.67	0.61	0.93	0.051
VTP-05005	50	0.01	47	5	7	36	10	27	1.29	0.75	0.69	1.22	0.051
VTP-10005	100	0.02	83	5	11	61	10	44	1.54	0.59	0.53	1.48	0.051
VTP-15005	150	0.03	122	5	9	90	10	34	1.85	0.75	0.69	1.79	0.051
VTP-20005	200	0.03	155	5	10	109	10	39	1.85	0.75	0.69	1.79	0.051
VTP-30005	300	0.04	241	5	14	175	10	36	2.18	1	0.84	2.1	0.051
VTP-02007	20	0.01	16	7	9	12	14	33	1.02	0.7	0.62	0.95	0.064
VTP-05007	50	0.01	42	7	8	31	14	30	1.58	0.63	0.55	1.5	0.064
VTP-10007	100	0.02	78	7	9	55	14	34	1.88	0.78	0.7	1.8	0.064
VTP-15007	150	0.03	145	7	7	110	14	26	2.35	1.25	1.18	2.28	0.064
VTP-20007	200	0.03	177	7	8	131	14	29	2.35	1.25	1.18	2.28	0.064
VTP-03408	34	0.01	26	8	16	22	12	30	1.25	0.62	0.55	1.23	0.055
VTP-00510	5	0.01	5	10	12	4	16	25	1.03	0.7	0.65	0.95	0.064
VTP-01510	15	0	12	10	40	11	14	50	1.33	0.8	0.71	1.24	0.064
VTP-05010	50	0.01	40	10	12	32	16	31	1.87	0.78	0.7	1.8	0.064
VTP-25010	250	0.03	152	10	32	125	14	50	2.19	1.1	0.85	2.1	0.055
TSD-904	1.4	0	1.2	11	25	1	15	40	0.75	0.4	0.27	n/a	0.051
VTP-07012	70	0.01	60	12	15	54	16	23	2.21	0.98	0.88	2.12	0.018
VTP-01020	11	0	8.5	20	30	7.5	25	42	1.45	0.85	0.73	1.26	0.08
VTP-01025	12	0	9.4	25	27	8.7	30	33	2.25	0.95	0.75	1.85	0.1

Specifications subject to change without notice.

vtp 5/98

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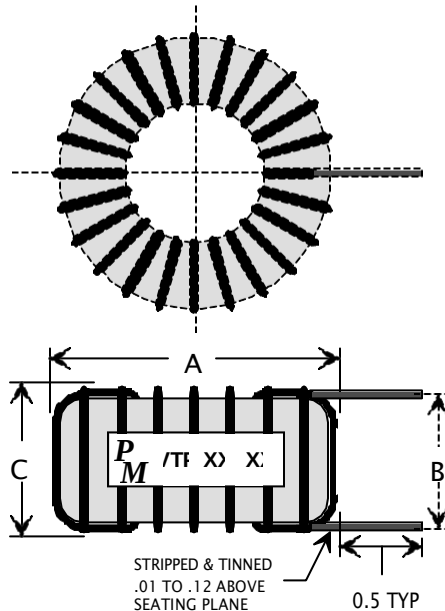
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LOW COST TOROIDAL POWER INDUCTORS

VTP-XXXX MECHANICAL

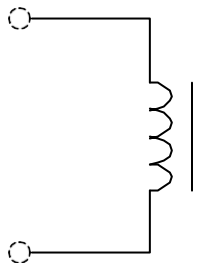
VTP-XXXXX OUTLINE VERTICAL MOUNT



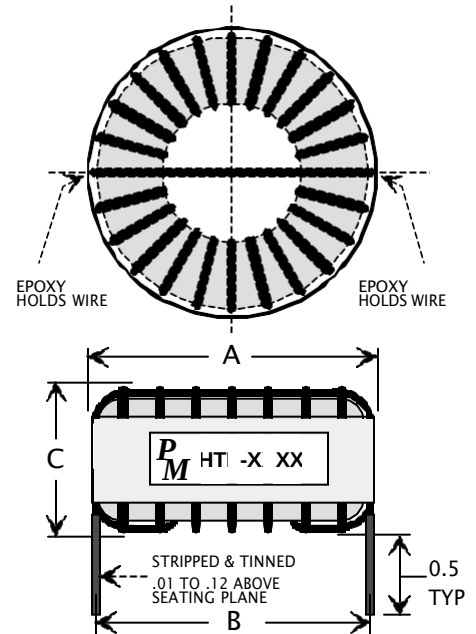
SCHEMATIC

HORIZONTAL OR VERTICAL MOUNT:

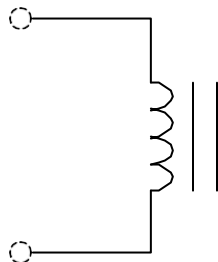
Table Part Numbers are Vertical Mount.
Change the "V" to "H" for Horizontal Mount.
Example:
VTP-05001 = Vertical Mount 50uH, 1.0Adc
HTP-05001 = Horizontal Mount 50uH, 1.0Adc



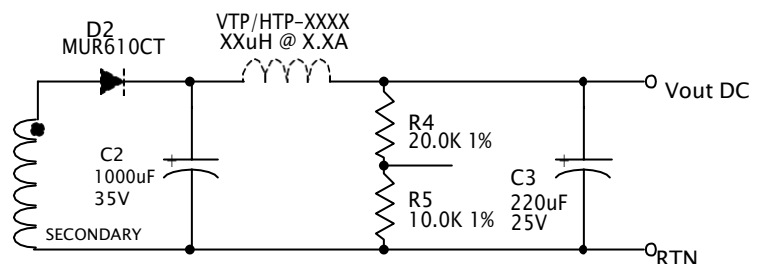
HTP-XXXXX OUTLINE HORIZONTAL MOUNT



SCHEMATIC



APPLICATION



VARIATIONS AVAILABLE. FOR INTERMEDIATE VALUES AND/ OR CUSTOM DESIGNS PLEASE CONSULT THE FACTORY.

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