



LOW COST TOROIDAL POWER INDUCTORS

FEATURES

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

NOTES: Temp Rise T1 & T2 are calculated.

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

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

PART NUMBER	Ln (-H)	DCR (Ohm)	L1 @ I1		T1 (°C)	L2 @ I2		T2 (°C)	REF. DIMENSIONS IN INCHES				
			(-H)	(dc A)		(-H)	(dc A)		A	C	VT/B	HT/B	PIN OD
VTP-00301	3	0.020	3	1	10	2.8	2	30	.32	.15	.13	.30	.016
VTP-01001	10	0.032	10	1	12	9	2	46	.33	.24	.22	.31	.013
VTP-02001	20	0.035	20	1	7	17	2	27	.46	.25	.23	.43	.018
VTP-05001	50	0.061	46	1	6	40	2	23	.60	.32	.30	.57	.020
VTP-10001	100	0.106	91	1	9	75	2	34	.60	.46	.43	.57	.018
VTP-12001	120	0.075	115	1	5	102	2	14	.95	.53	.45	.90	.025
VTP-25001	250	0.168	229	1	7	188	2	27	.93	.46	.44	.90	.020
VTP-01002	10	0.016	10	2	12	8	4	48	.47	.26	.24	.44	.022
VTP-02002	20	0.024	18	2	11	14	4	43	.61	.27	.24	.58	.025
*VTP-02002T	20	0.025	18	2	11	14	4	43	.62	.30	.24	-	.025
VTP-05002	50	0.031	48	2	5	41	4	20	.95	.49	.45	.91	.032
VTP-07002	70	0.039	61	2	11	48	4	43	.82	.36	.31	.82	.025
VTP-10002	100	0.043	89	2	6	72	4	24	.95	.63	.59	.91	.032
VTP-25002	250	0.068	222	2	6	178	4	24	1.24	.71	.67	1.20	.032
VTP-33002	330	0.10	235	2	12	180	3.3	32	1.0	.56	.48	.96	.032
VTP-33003	330	0.067	250	3	9	185	5.2	28	1.28	.76	.67	1.28	.042
VTP-01005	10	0.006	10	5	6	8	10	22	1.00	.53	.47	.93	.051
VTP-02005	20	0.008	18	5	7	14	10	27	1.00	.67	.61	.93	.051
VTP-05005	50	0.013	47	5	7	36	10	27	1.29	.75	.69	1.22	.051
VTP-10005	100	0.023	83	5	11	61	10	44	1.54	.59	.53	1.48	.051
VTP-15005	150	0.029	122	5	9	90	10	34	1.85	.75	.69	1.79	.051
VTP-20005	200	0.033	155	5	10	109	10	39	1.85	.75	.69	1.79	.051
VTP-30005	300	0.038	241	5	14	175	10	36	2.18	1.00	.84	2.10	.051
VTP-02007	20	0.005	16	7	9	12	14	33	1.02	.70	.62	.95	.064
VTP-05007	50	0.009	42	7	8	31	14	30	1.58	.63	.55	1.50	.064
VTP-10007	100	0.015	78	7	9	55	14	34	1.88	.78	.70	1.80	.064
VTP-15007	150	0.025	145	7	7	110	14	26	2.35	1.25	1.18	2.28	.064
VTP-20007	200	0.030	177	7	8	131	14	29	2.35	1.25	1.18	2.28	.064
VTP-03408	34	0.008	26	8	16	22	12	30	1.25	0.62	0.55	1.23	.055
VTP-00510	5	0.005	5	10	12	4	16	25	1.03	.70	.65	.95	.064
VTP-01510	15	0.004	12	10	40	11	14	50	1.33	.80	.71	1.24	.064
VTP-05010	50	0.010	40	10	12	32	16	31	1.87	.78	.70	1.80	.064
VTP-25010	250	0.027	152	10	32	125	14	50	2.19	1.10	.85	2.10	.055
TSD-904	1.4	0.0017	1.2	11	25	1.0	15	40	0.75	0.40	.27	n/a	.051
VTP-15015	350	0.026	150	15	65	125	17	75	2.30	1.10	1.0	2.2	.064
VTP-22015	520	0.030	220	15	65	200	17	75	2.40	1.20	1.1	2.3	.064
VTP-07012	70	0.009	60	12	15	54	16	23	2.21	.98	.88	2.12	.081
VTP-01020	11	0.0025	8.5	20	30	7.5	25	42	1.45	.85	.73	1.26	.080
VTP-01025	12	0.0023	9.4	25	27	8.7	30	33	2.25	.95	.75	1.85	.100

*VTP-02002T=VTP-02002 with heat shrink tubing

Specifications subject to change without notice.

12/2021

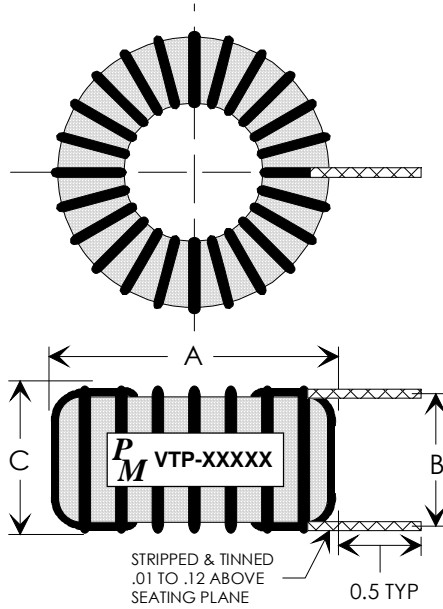
20381 BARENTS SEA CIRCLE, LAKE FOREST, CA 92630 ☎ TEL: (949) 452-0511 ☎ FAX: (949) 452-0512 ☎ <http://www.premiermag.com>

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VTP-XXXX MECHANICAL

HTP-XXXX MECHANICAL

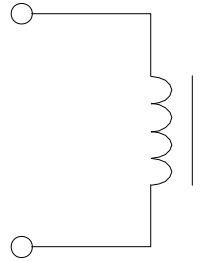
VTP-XXXXX OUTLINE VERTICAL MOUNT



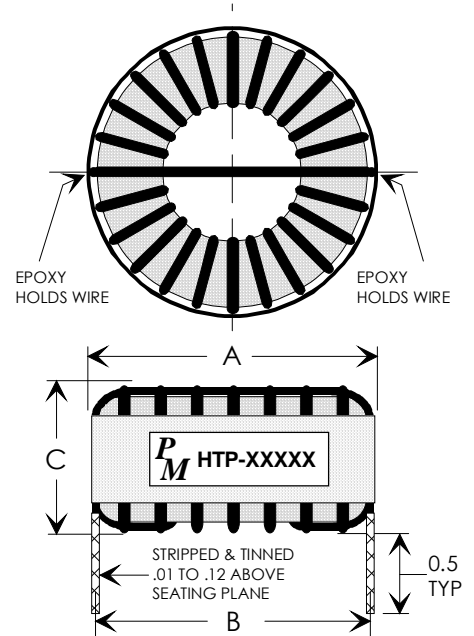
SCHEMATIC

HORIZONTAL OR VERTICAL MOUNT:

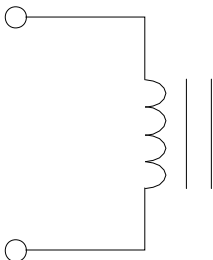
Table Part Numbers are Vertical Mount.
Change the "V" to "H" for Horizontal Mount.
Example:
VTP-05001 = Vertical Mount 50uH, 1.0Adc
HTP-05001 = Horizontal Mount 50uH, 1.0Adc



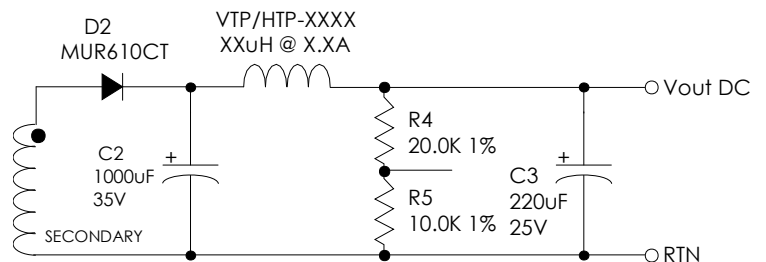
HTP-XXXXX OUTLINE HORIZONTAL MOUNT



SCHEMATIC



APPLICATION



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

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