

MT-50000 SERIES

General Purpose Inductors

MINNTRONIX

Wind Up the Best®

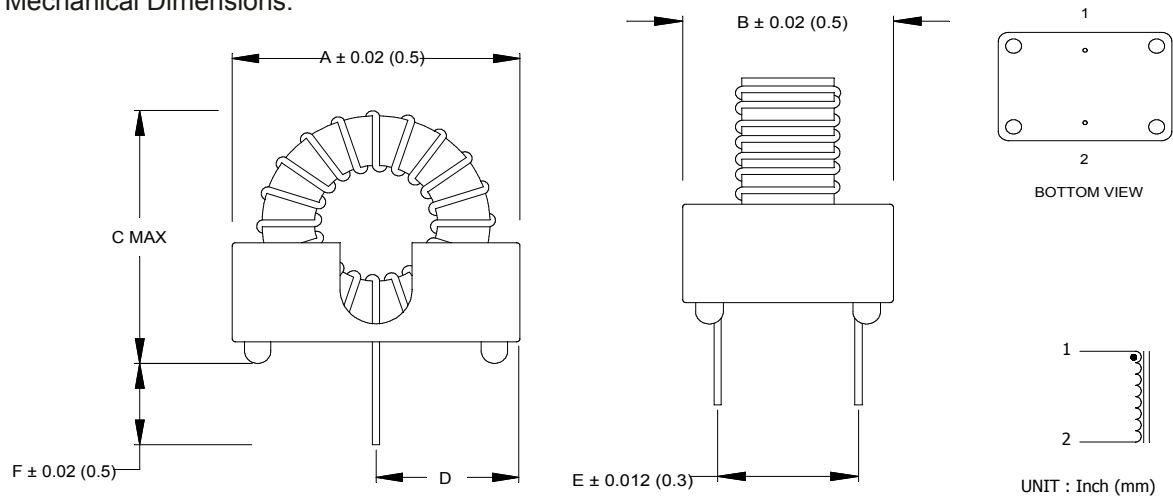


Phone: 1.605.884.0195
Fax: 1.605.884.0199
www.minntronix.com

- Mounting base assures assembly stability, holds pins securely in position
- Plastic material meets flammability requirements of UL94V-0
- PC board-automatic insertion applicable
- SMPS averaging 2nd ripple filter
- Single layer designs
- May be used as differential mode inductor in EMI filters
- Economical baseless version available

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Mechanical Dimensions:

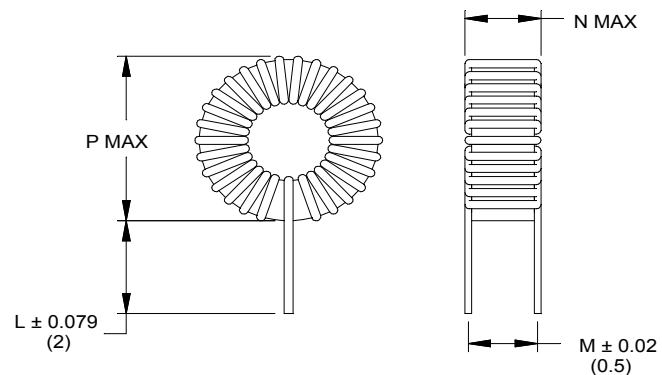


With base

Package Style	A	B	C	D	E	F
T-KM44	0.58 (14.73)	0.34 (8.64)	0.65 (16.51)	0.29 (7.37)	0.22 (5.6)	0.13 (3.3)
T-KM50	0.65 (16.51)	0.45 (11.43)	0.7 (17.78)	0.325 (8.26)	0.3 (7.62)	0.13 (3.3)
T-KM68	0.83 (21.08)	0.45 (11.43)	0.95 (24.13)	0.415 (10.54)	0.3 (7.62)	0.13 (3.3)
T-KM80	0.97 (24.64)	0.602 (15.3)	1.1 (27.94)	0.475 (12.07)	0.45 (11.43)	0.13 (3.3)
T-KM106	1.3 (33.02)	0.7 (17.78)	1.4 (35.56)	0.625 (15.88)	0.5 (12.7)	0.13 (3.3)

Baseless design

Coil Size	P	N	L	M
A	0.55 (13.97)	0.25 (6.35)	0.375 (9.53)	0.18 (4.57)
B	0.70 (17.78)	0.38 (9.65)	0.375 (9.53)	0.28 (7.11)
C	0.85 (21.59)	0.41 (10.41)	0.375 (9.53)	0.28 (7.11)
D	1.05 (26.67)	0.55 (13.97)	0.375 (9.53)	0.4 (10.16)
E	1.40 (35.56)	0.7 (17.78)	0.375 (9.53)	0.5 (12.7)
F	1.65 (41.91)	0.7 (17.78)	0.375 (9.53)	0.5 (12.7)
G	0.85 (21.59)	0.33 (8.38)	0.875 (22.23)	0.33 (8.38)
H	0.64 (16.26)	0.28 (7.11)	0.875 (22.23)	0.28 (7.11)



UNIT : Inch (mm)

Specifications subject to change. Custom versions of any Minntronix Products are available upon request.

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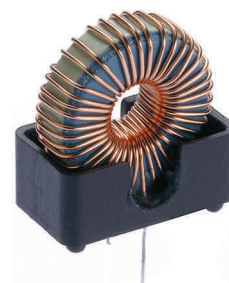
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Electrical Specifications at 25°C

Reference Operating Values					Design Control Values					
Part Number	Inductance Typical (uH)	IDC (Amps)	ETop (V•us)	Min Energy Storage (uJ)	Inductance No DC (uH±20%)	20 KHz Test mV No DC	DCR (mΩ max)	Coil Size Code	Mount Package	Lead Dia Inch (mm)
MT-50001	20	2.0	52	40	32.8	33	60	H	—	0.02 (.5)
MT-50002	25	2.6	30	85	20.7	22	43	A	T-KM44	0.02 (.5)
MT-50003	50	2.6	50	169	45.7	45	71	B	T-KM50	0.02 (.5)
MT-50004	100	2.6	90	338	94.1	90	100	C	T-KM68	0.02 (.5)
MT-50005	35	2.6	55	118	28.4	36	37	B	T-KM50	0.025 (.635)
MT-50006	70	3.0	85	315	61.0	73	52	C	T-KM68	0.025 (.635)
MT-50007	145	3.0	140	653	141.8	140	87	D	T-KM80	0.025 (.635)
MT-50008	285	3.0	300	1283	264.1	340	140	E	T-KM106	0.025 (.635)
MT-50009	450	3.0	425	2025	436.3	500	200	F	—	0.025 (.635)
MT-50010	100	3.6	130	648	90.7	110	45	D	T-KM80	0.031 (.8)
MT-50011	165	4.0	240	1320	152.0	260	70	E	T-KM106	0.031 (.8)
MT-50012	270	4.0	350	2160	263.9	400	100	F	—	0.031 (.8)
MT-50013	40	4.0	70	320	37.9	57	27	C	T-KM68	0.031 (.8)
MT-50014	22	5.0	44	275	20.3	37	20	G	—	0.031 (.8)
MT-50015	100	5.0	200	1250	90.7	180	34	E	T-KM106	0.039 (1)
MT-50016	170	5.0	300	2125	159.7	310	50	F	—	0.039 (1)
MT-50017	55	5.0	100	688	54.9	88	23	D	T-KM80	0.039 (1)
MT-50018	95	7.0	225	2328	96.0	200	25	F	—	0.051 (1.3)
MT-50019	55	7.0	150	1348	49.1	100	17	E	T-KM106	0.051 (1.3)
MT-50020	55	10.0	175	2750	55.9	120	13	F	—	0.063 (1.6)

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