

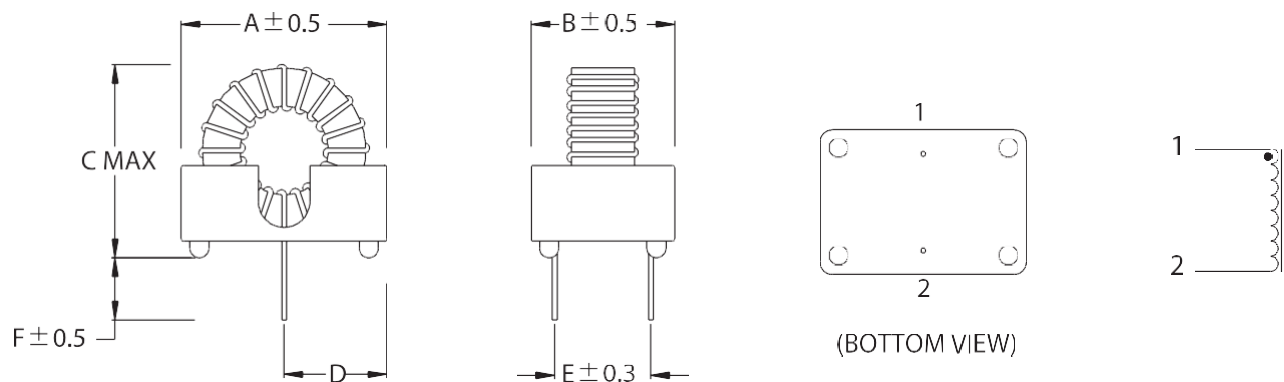
MGT-50000 SERIES

General Purpose Inductors



- Rigid mount termination and stand-off.
- Base material meets flammability requirements of UL94V-0. PC
- Board-automatic insertion applicable.
- SMPS averaging filter.
- Characterized for general purpose use and ripple filters.
- Single layer designs.
- Can be used as differential mode inductors in EMI filters.
- Bare coil low cost version available.

Mechanical Dimensions:



(BOTTOM VIEW)

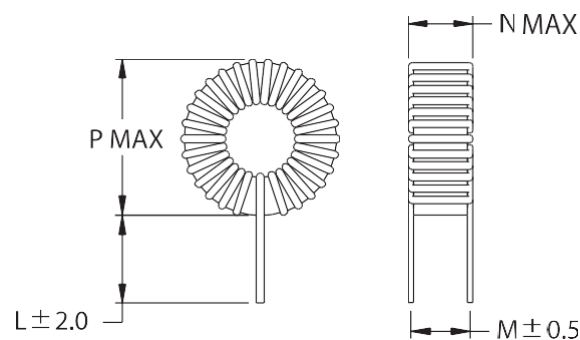
UNIT:mm

Mounting package

Package Style	A	B	C	D	E	F
T - KM44	14.73	8.64	16.51	7.37	5.60	3.3
T - KM50	16.51	11.43	17.78	8.26	7.62	3.3
T - KM68	21.08	11.43	24.13	10.54	7.62	3.3
T - KM80	24.64	15.30	27.94	12.07	11.44	3.3
T - KM106	33.02	17.78	35.56	15.88	12.70	3.3

Bare Coil

Coil Size	P	N	L	M
A	13.97	6.35	9.53	4.57
B	17.78	9.65	9.53	7.11
C	21.59	10.41	9.53	7.11
D	26.67	13.97	9.53	10.16
E	35.56	17.78	9.53	12.7
F	41.91	17.78	9.53	12.7
G	21.59	8.38	22.23	8.38
H	16.26	7.11	22.23	7.11



UNIT:mm



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Electrical Specifications at 25 °C

Reference Operating Values					Design Control Values					
Part Number	Inductance Typical (μ H)	IDC (Amps)	ETop (V- μ)	Min. Energy Storage (μ J)	Inductance No DC (μ H $\pm$ 2%)	20KHz Test mV No DC	DCR 20°C (m Ω Max.)	Coil Code	Mount	Dia. (mm)
MGT - 50001	20	2.0	52	40	32.8	33	60	H		0.50
MGT - 50002	25	2.6	30	85	20.7	22	43	A	T-KM44	0.50
MGT - 50003	50	2.6	50	169	45.7	45	71	B	T-KM50	0.50
MGT - 50004	100	2.6	90	338	94.1	90	100	C	T-KM68	0.50
MGT - 50005	35	2.6	55	118	28.4	36	37	B	T-KM50	0.635
MGT - 50006	70	3.0	85	315	61.0	73	52	C	T-KM68	0.635
MGT - 50007	145	3.0	140	653	141.8	140	87	D	T-KM80	0.635
MGT - 50008	285	3.0	300	1283	264.1	340	140	E	T-KM106	0.635
MGT - 50009	450	3.0	425	2025	436.3	500	200	F		0.635
MGT - 50010	100	3.6	130	648	90.7	110	45	D	T-KM80	0.80
MGT - 50011	165	4.0	240	1320	152.0	260	70	E	T-KM106	0.80
MGT - 50012	270	4.0	350	2160	263.9	400	100	F		0.80
MGT - 50013	40	4.0	70	320	37.9	57	27	C	T-KM68	0.80
MGT - 50014	22	5.0	44	275	20.3	37	20	G		0.80
MGT - 50015	100	5.0	200	1250	90.7	180	34	E	T-KM106	1.00
MGT - 50016	170	5.0	300	2125	159.7	310	50	F		1.00
MGT - 50017	55	5.0	100	688	54.9	88	23	D	T-KM80	1.00
MGT - 50018	95	7.0	225	2328	96.0	200	25	F		1.30
MGT - 50019	55	7.0	150	1348	49.1	100	17	E	T-KM106	1.30
MGT - 50020	55	10.0	175	2750	55.9	120	13	F		1.60

