

**TRANSFORMER
(INDUCTOR)**



80T/81T SERIES

STANDARD LOW POWER INDUCTORS

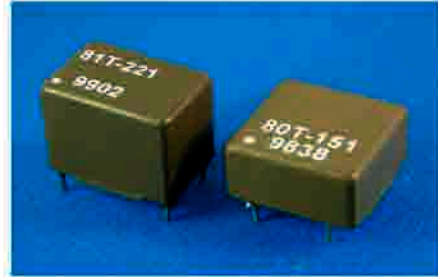
DESIGNED FOR GENERAL PURPOSE USE-
SWITCH MODE POWER CONVERTERS AND
RIPPLE FILTERS

FEATURES

- HIGH INDUCTANCE STABILITY WITH VARYING VOLT-SECONDS AND LOAD CURRENTS.
- COMPACT, STANDARD PACKAGES.
- LOW PROFILE OR VERTICAL PACKAGES.

TEST CONDITIONS

- Inductance ----- 10KHz/1V



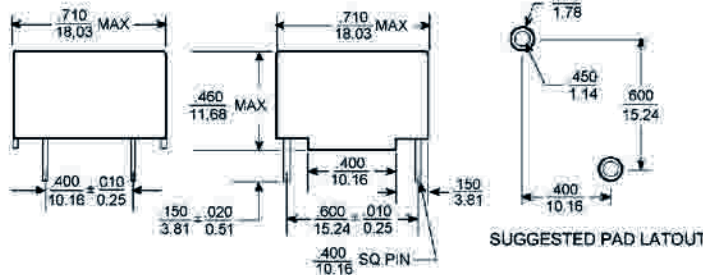
ELECTRICAL SPECIFICATIONS @25°C-Operating temperature -30°C TO +130°C

REFERENCE OPERATING VALUES						DESIGN CONTROL VALUES		
LOW PROFILE PART NUMBER	VERTICAL PART NUMBER	INDUCTANCE TYPICAL (μ H)	IDC (AMPS)	MAXIMUM ETOP (V- μ SEC)	ENERGY STORAGE (μ J)	INDUCTANCE NO DC (μ H \pm 20%)	20KHz TEST mV NO DC	DCR (Ω MAX)
80T-151	81T-151	150	1.7	80	215	145	110	0.42
80T-221	81T-221	220	1.5	90	240	226	140	0.42
80T-331	81T-331	330	1.0	100	165	316	170	0.78
80T-471	81T-471	470	0.90	120	190	480	210	1.26
80T-681	81T-681	680	0.85	175	245	690	250	1.50
80T-821	81T-821	820	0.75	175	230	780	270	2.40
80T-102	81T-102	1000	0.50	175	125	975	300	2.60

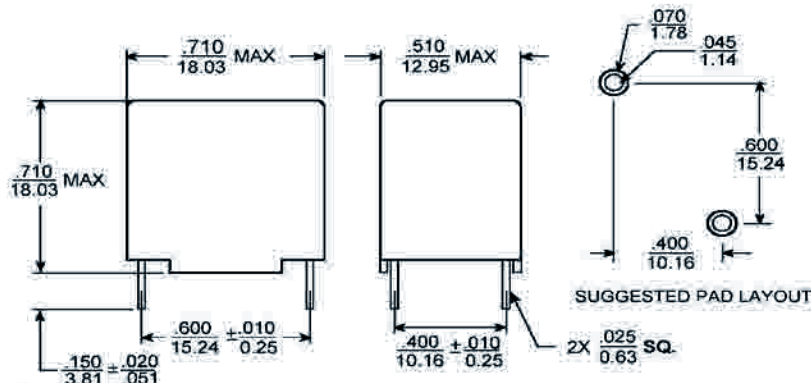
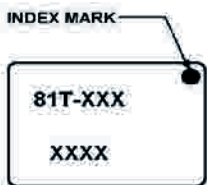
MARKINGS AND DIMENSIONS

SCHEMATIC

Low Profile Package



Vertical Package

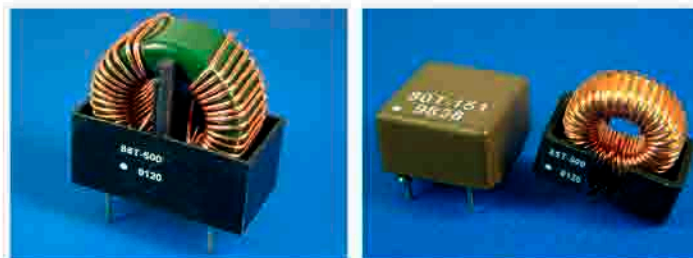


Dimensions: inches/mm

Unless otherwise specified, all tolerances are $\pm .010/\pm 0.25$

FEATURES

- BASE MATERIAL MEETS FLAMMABILITY REQUIREMENTS OF UL 94V-0



TEST CONDITIONS

- Inductance ----- 10KHz/0.5V

ELECTRICAL SPECIFICATIONS @25°C -Operating temperature -30°C TO +130°C

PART IDENTIFICATION	REFERENCE OPERATING VALUES			DESIGN CONTROL VALUES			
	PART NUMBER	INDUCTANCE TYPICAL (μ Hy)	IDC (Amps)	ETOP (V- μ sec)	INDUCTANCE NO DC (μ Hy \pm 20%)	DCR (Ω MAX)	PACKAGE STYLE
85T-470K2	47	3.0	90	38	0.05	K2	0.025
85T-680K4	68	3.0	90	55	0.02	K4	0.040
85T-101K4	100	3.0	90	91	0.04	K4	0.032
85T-151K4	150	2.0	90	130	0.10	K4	0.025
80T-221A	220	1.4	90	230	0.38	LOW PROFILE	0.025SQ
85T-221K3	220	1.4	90	176	0.14	K3	0.020
80T-331A	330	0.9	90	302	0.74	LOW PROFILE	0.025SQ
85T-331K3	330	0.9	90	267	0.18	K3	0.020
85T-471K4	470	0.64	90	426	0.16	K4	0.025
80T-681A	680	0.85	90	657	1.25	LOW PROFILE	0.025SQ
85T-151K4	150	3.0	200	136	0.10	K4	0.025
85T-221K5	220	3.0	200	167	0.07	K5	0.032
85T-331K5	330	3.0	200	292	0.15	K5	0.025
85T-471K5	470	2.0	200	369	0.17	K5	0.025
85T-681K5	680	1.3	200	562	0.20	K5	0.025
85T-102K5	1000	0.95	200	762	0.24	K5	0.025
85T-152S2	1500	0.62	200	1150	1.00	S2	0.032
85T-222S2	2200	0.42	200	1730	1.80	S2	0.032

NOTES

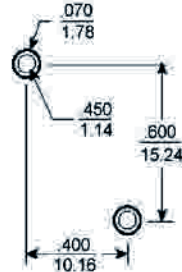
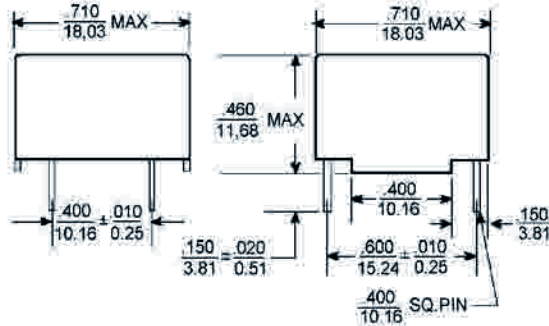
1. typical inductance occurs at IDC and ETOP values shown.
2. The control value of inductance is measured at BOP equal to or less then 10gauss (10mV @20KHz) without DCcurrent.
3. Inductance decreases with higher values of DC current and increases with lower values of DC current.
4. inductance increases with increase in BOP or ETOP.

MARKINGS AND DIMENSIONS

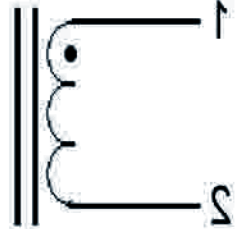
Low Profile Package



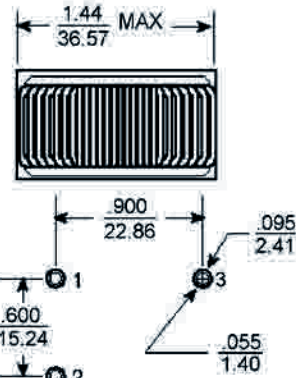
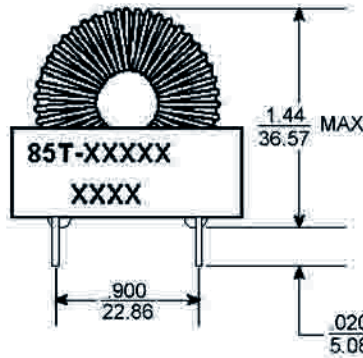
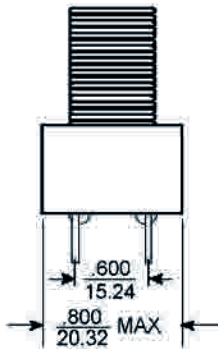
INDEX MARK



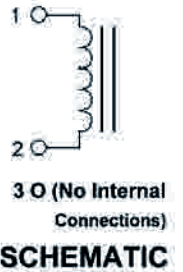
SUGGESTED PAD LAYOUT



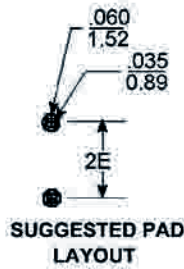
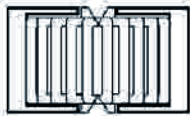
S2 PACKAGE



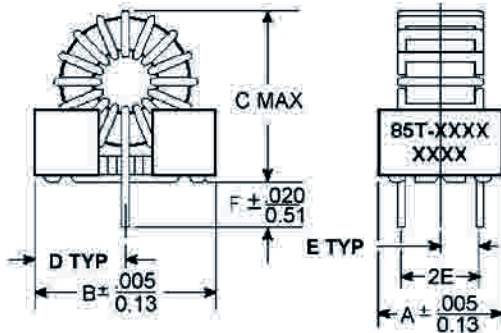
SUGGESTED PAD LAYOUT



K. MOUNT PACKAGE



SUGGESTED PAD LAYOUT



PKG	A	B	C	D	E	F
K2	.450	.650	.700	.325	.150	.130
	11.43	16.51	17.73	8.26	3.81	3.30
K3	.450	.830	.950	.415	.150	.130
	11.43	21.08	24.13	10.54	3.81	3.30
K4	.600	.950	1.00	.475	.225	.130
	15.24	24.13	25.4	12.07	5.72	3.30
K5	.700	1.30	1.40	.625	.250	.130
	17.73	33.02	35.56	15.88	6.35	3.30

NOTE:

Unless otherwise specified,
All tolerances are $\pm 0.10/0.25$

FEATURES

- Base material meets flammability Requirements of UL 94V-0
- Available in surface mount and through Hole versions

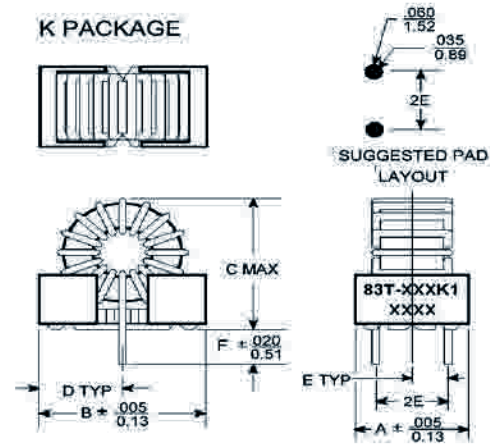
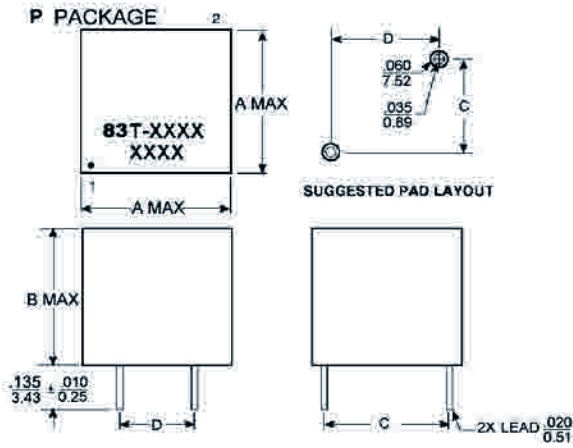


Electrical Specifications @25°C—Operating Temperature-30° to+130°C

THT Part Number	SMT Part Number	In Circuit Operating Parameters ¹			Nominal DCR (Ω)	Package	
		Nominal Inductance (μH)	Rated Current (Amps DC)	(Max ²) ETop (V-μSec)		Through Hole	Surface Mount
83T-259P2	83T-259L2	259	0.13	23.1	3.4	P2	L2
83T-178P2	83T-178L2	178	0.16	16.5	2.8	P2	L2
83T-118P2	83T-118L2	118	0.2	13.2	1.8	P2	L2
83T-790P2	83T-790L2	79	0.25	9.9	1.5	P2	L2
83T-550P2	83T-550L2	55	0.3	6.6	1.0	P2	L2
83T-390P2	83T-390L2	39	0.34	6.6	.80	P2	L2
83T-260P2	83T-260L2	26	0.45	6.6	.62	P2	L2
83T-374P3	83T-374L3	374	0.2	75.9	2.7	P3	L3
83T-256P3	83T-256L3	256	0.25	33	2.2	P3	L3
83T-176P3	83T-176L3	176	0.3	26.4	1.4	P3	L3
83T-118P3	83T-118L3	118	0.38	19.8	1.2	P3	L3
83T-780P3	83T-780L3	78	0.46	16.5	0.8	P3	L3
83T-550P3	83T-550L3	55	0.56	13.2	0.5	P3	L3
83T-390P3	83T-390L3	39	0.68	9.9	0.3	P3	L3
83T-260P3	83T-260L3	26	0.84	6.6	0.2	P3	L3
83T-170P3	83T-170L3	17	1.02	6.6	0.1	P3	L3
83T-375P7	83T-375L7	375	0.36	75.9	1.3	P7	L7
83T-251P7	83T-252L7	252	0.44	49.5	0.9	P7	L7
83T-171P7	83T-173L7	173	0.54	36.3	0.6	P7	L7
83T-115P7	83T-115L7	115	0.67	29.7	0.4	P7	L7
83T-780P7	83T-780L7	78	0.82	23.1	0.3	P7	L7
83T-540P7	83T-540L7	54	1.0	16.5	0.2	P7	L7
83T-380P7	83T-380L7	38	1.2	13.2	0.1	P7	L7
83T-260P7	83T-260L7	26	1.48	9.9	0.1	P7	L7
83T-180P7	83T-180L7	18	1.81	9.9	0.06	P4	L4
83T-377P4	83T-377L4	377	0.68	75.9	1.0	P4	L4
83T-248P4	83T-248L4	248	0.83	72.6	0.6	P4	L4
83T-168P4	83T-168L4	168	1.02	56.1	0.4	P4	L4
83T-111P4	83T-112L4	112	1.26	42.9	0.3	P4	L4
83T-770P4	83T-770L4	77	1.54	33	0.2	P4	L4
83T-530P4	83T-530L4	53	1.87	26.4	0.13	P4	L4
83T-370P4	83T-370L4	37	2.24	19.8	0.10	P4	L4
83T240P4	83T-240L4	24	2.74	16.5	0.07	P4	L4
83T-170K1	83T-170L4	17	3.0	13.2	0.05	K1	L4
83T251K3	83T-251H6	250	1.5	72.6	0.23	K3	H6
83T-168K3	83T-168H6	168	1.81	75.9	0.18	K3	H6
83T-114K3	83T-114H6	114	2.22	62.7	0.10	K3	H6
83T-770K3	83T-770H6	77	2.7	52.8	0.09	K3	H6
83T-530K3	83T-530H6	53	3.0	42.9	0.08	K3	H6
83T-380K2	83T-380H6	38	3.0	29.7	0.05	K3	H6
83T-250K2	83T-250L5	25	3.0	19.8	0.04	K2	L5
83T-167K4		167	2.5	75.9	0.14	K4	
83T-111K4		110	3.0	75.9	0.09	K4	
83T-770K3	83T-770H6	77	3.0	59.4	0.08	K3	H6
83T-190K3		19	4.5	32 ⁽³⁾	0.02	K3	

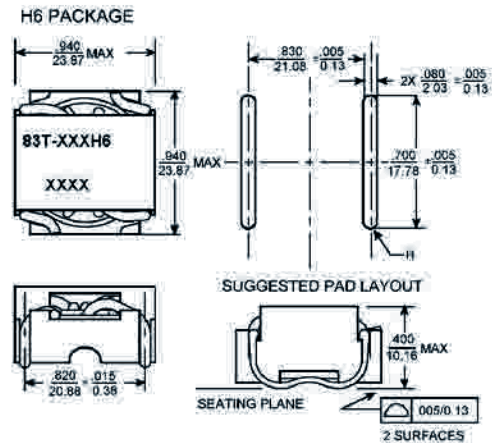
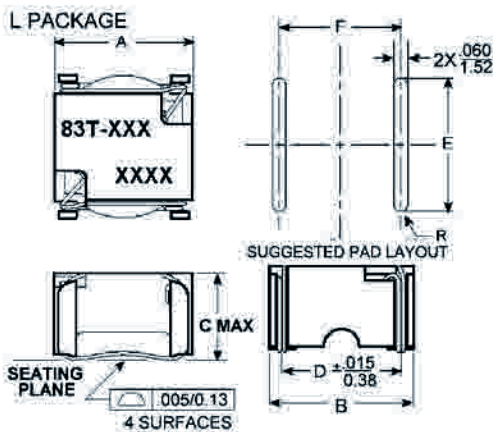
NOTES: 1. Inductance Values may vary ±20%
 2. Etop rated at 150KHz except where designated.
 3. Etop rated at 100KHz

MARKINGS AND DIMENSIONS



PGK	A	B	C	D
P2	.360	.310	.250	.250
	9.14	7.87	6.35	6.35
P3	.400	.300	.300	.300
	10.16	7.62	7.62	7.62
P7	.495	.375	.375	.375
	12.57	9.52	9.52	9.52
P4	.635	.365	.500	.300
	16.13	9.27	12.7	7.62

package	A	B	C	D	E	F
K1	.340	.580	.650	.290	.110	.130
	8.64	8.64	8.64	7.37	2.79	3.30
K2	.450	.650	.700	.325	.150	.130
	11.43	16.51	17.73	8.26	3.81	3.30
K3	.450	.830	.950	.415	.150	.130
	11.43	21.08	24.13	10.54	3.81	3.30
K4	.600	.950	1.00	.475	.275	.130
	15.24	24.13	25.4	12.07	5.72	3.30



PGK	A	B	C	D	E	F
L2	.340	.340	.270	.260	.300	.270
	8.64	8.64	6.86	6.60	7.62	6.86
L3	.435	.440	.360	.350	.400	.360
	11.05	11.18	9.14	8.89	10.16	9.14
L7	.565	.570	.360	.450	.520	.460
	14.35	14.48	9.14	11.43	13.21	11.68
L4	.600	.620	.340	.550	.550	.510
	15.24	15.75	8.64	12.7	13.97	12.95
L5	.670	.700	.390	.580	.620	.590
	17.02	17.78	9.91	14.73	15.75	14.99

NOTE:

Coil must clear seating plane by: $0.10/0.25$ min
 Unless otherwise specified,
 All tolerances are $\pm 0.010/0.25$

FEATURES

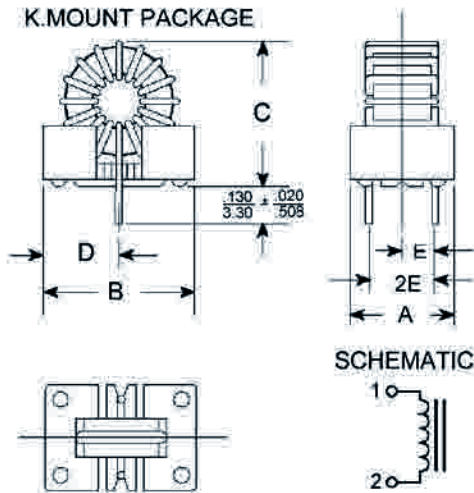
- AVAILABLE IN VERTICAL, LOWPROFILE AND KLIPMOUNT™
- SMPS AVERAGING FILTER.
- CHARACTERIZED FOR GENERAL PUROSE USE AND RIPPLE FILTERS.
- SINGLE-LAYER DESIGNS.
- CAN BE USED AS DIFFERENTIAL MODE INDUCTORS IN EMI FILTERS³



ELECTRICAL SPECIFICATIONS @25°C -Operating temperature -30°C TO +130°C

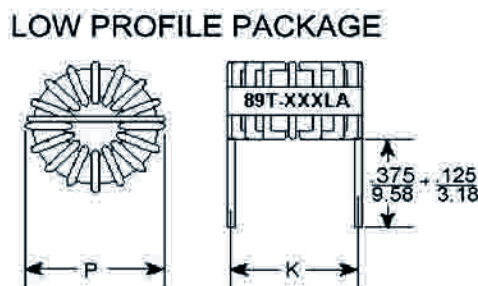
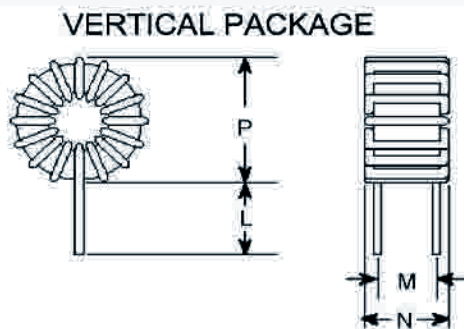
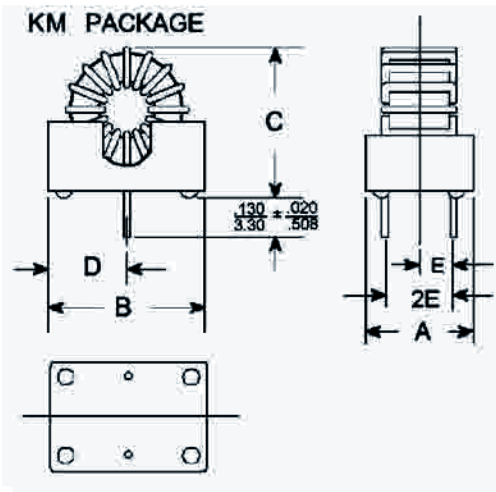
REFERNCE OPERATING VALUES						DESIGN CONTROL VALUES					
Low profile Part Number	Vertical Part Number	Inductance Typical (μH)	Idc amp S	E _{Top} (V-μsec)	Energy Storage (μJ)	Inductance No dc±20% (μH)	20khz Test mv No dc	Dcr (Ω) Max	Coil Size Code	K.Mount Part Number	Lead Diameter (in)±.003
-	89T-200VH	20	2.0	52	40	32.8	33	0.060	H	-	0.020
-	89T-250VA	25	2.6	30	85	20.7	22	0.043	A	89T-250K1	0.020
89T-500WB	89T-500VB	50	2.6	50	169	45.7	45	0.071	B	89T-500K2	0.020
89T-101WC	89T-101VC	100	2.6	90	338	94.1	90	0.100	C	89T-101K3	0.020
-	89T-350VB	35	2.6	55	118	28.4	36	0.037	B	89T-350K2	0.025
89T-700WC	89T-700VC	70	3.0	85	315	61.0	73	0.052	C	89T-700K3	0.025
89T-145WD	89T-145VD	145	3.0	140	653	141.8	140	0.087	D	89T-145K4	0.025
-	89T-285VE	285	3.0	300	1283	264.1	340	0.140	E	89T-285K5	0.025
-	89T-451VF	450	3.0	425	2025	436.3	500	0.200	F	-	0.025
89T-100WD	89T-101VD	100	3.6	130	648	90.7	110	0.045	D	89T-101K4	0.032
-	89T-165VE	165	4.0	240	1320	152.0	260	0.070	E	89T-165K5	0.032
-	89T-271VF	270	4.0	350	2160	263.9	400	0.100	F	-	0.032
-	89T-400VC	40	4.0	70	320	37.9	57	0.027	C	89T-400K3	0.032
-	89T-200VG	22	5.0	44	275	20.3	37	0.020	G	-	0.032
89T-100WE	89T-101VE	100	5.0	200	1250	90.7	180	0.034	E	89T-101K5	0.042
-	89T-171VF	170	5.0	300	2125	159.7	310	0.050	F	-	0.042
89T-550WD	89T-550VD	55	5.0	100	688	54.9	88	0.023	D	89T-550K4	0.042
-	89T-950VF	95	7.0	225	2328	96.0	200	0.025	F	-	0.051
89T-500WE	89T-550VE	55	7.0	150	1348	49.1	100	0.017	E	89T-550K5	0.051
-	89T-550VF	55	10.0	175	2750	55.9	120	0.013	F	-	0.064

MARKINGS AND DIMENSION



STANDARD PACKAGE	A	B	C	D	E
	NOM±.005/0.13	NOM.	NOM.	TYPICAL	TYPICAL
K1	.340	.580	.650	.29	.110
	8.64	14.73	16.57	7.37	2.79
K2	.450	.650	.700	.325	.150
	11.43	16.51	17.78	8.26	3.91
K3	.450	.830	.950	.415	.150
	11.73	21.03	24.13	10.54	.391
K4	.600	.950	1.10	.475	.225
	15.24	24.13	27.94	12.07	5.72
K5	.700	1.3	1.40	.625	.250
	17.78	33.02	35.56	15.88	6.35

DIMENSIONS: inches/mm



COIL SIZE	P (MAX)	N (MAX)	L +1.25/-0.25	M	K
A	0.55	0.25	0.375	0.180	-
	13.97	6.35	9.53	4.57	-
B	0.70	0.38	0.375	0.280	0.530±0.050
	17.78	9.65	9.53	7.11	13.46±1.27
C	0.85	0.41	0.375	0.280	0.720±0.050
	21.59	10.41	9.53	7.11	18.29±1.27
D	1.05	0.55	0.375	0.400	0.840±0.020
	26.27	13.97	9.53	10.16	21.24±0.51
E	1.40	0.700	0.375	0.500	1.10±0.100
	35.56	17.78	9.53	12.7	25.65±2.56
F	1.65	0.700	0.375	0.500	-
	41.91	17.78	9.53	12.7	-



94T SERIES

TOROIDAL INDUCTORS HIGH INDUCTANCE

FEATURES

- HIGH FREQUENCY,LOW LOSS OPERATION(UP TO 100KHz)
- ENCAPSULATED CONSTRUCTION.
- AMBIENT TEMPERATURE RANGE OF -55°C TO +70.°C
- GOOD INDUCTANCE STABILITY WITH TEMPPERATURE.

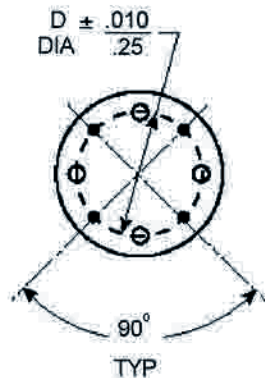
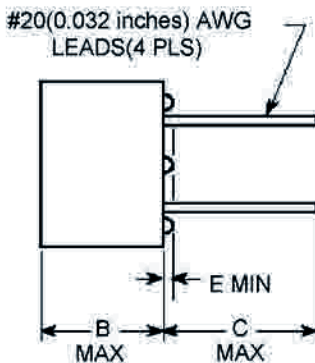


ELECTRICAL SPECIFICATIONS @25°C

REFERENCE OPERATING VALUES					DESIGN CONTROL VALUES		
LOW PROFILE PART NUMBER	INDUCTANCE TYPICAL (mHy)	IDC (AMPS)	MAXIMUM ETOP (V-μ SEC)	ENERGY STORAGE (μ Jmin) ¹	INDUCTANCE NO DC (mHy±20%) ²	DCR (Ω MAX)	SIZE CODE
94T-5011	0.5	0.60	110	90	0.72	0.35	1
94T-1021	1.0	0.35	160	60	1.51	0.75	1
94T-2021	2.0	0.25	225	60	2.88	1.30	1
94T-5012	0.5	1.75	325	765	0.72	0.35	2
94T-5013	0.5	2.75	650	1890	0.75	0.25	3
94T-2023	2.0	1.50	1200	2250	2.70	0.75	3

Note:1. $L I^2$ rating is the ability of the inductor to store energy. 2. Inductance measured at 0.4 Volts and 20KHz.

MARKINGS AND DIMENSION



SIZE	A	B	C	D	E
1	0.754	0.400	0.500	0.625	0.03
	18.92	10.16	12.70	15.87	0.76
2	1.140	0.665	0.500	1.00	0.03
	28.95	16.89	12.70	25.40	0.76
3	1.416	0.850	0.500	1.250	0.03
	35.96	21.59	12.70	13.75	0.76

Schematic



3 ○ OPEN

4 ○ OPEN



Dimensions: inches/mm

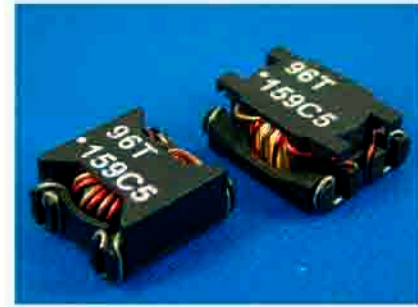
Unless otherwise specified, all tolerances are ±.010/±0.25

FEATURES

- SELF-LEADED, SURFACE MOUNT.
- SUITED FOR IR AND VAPOR PHASE REFLOW SOLDERING.
- FREQUENCY RANGE UP TO 1MHz.

TEST CONDITIONS

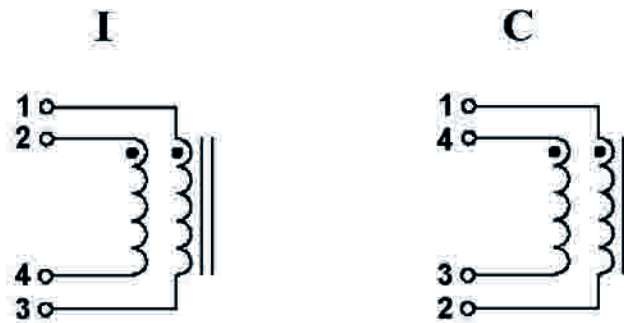
- Inductance ----- 1MHz/1V
- Leakage Inductance ----- 1MHz/1V



ELECTRICAL SPECIFICATIONS @25°C—Operating Temperature-30°C to 130°C

Part Number	I _{bc} (Amps)	L _{w/dbc} (μH)	ET (V-μ sec)	SIZE CODE	L _{w/dbc} (μH±20%)	Max DCR (mΩ)
96T-053I4	23.8	.53	1.00	I4	.88	1.7
96T-011I5	21.0	1.10	1.75	I5	2.10	3.0
96T-021I6	22.4	2.10	3.25	I6	4.00	3.4
96T-430C3	1.1	43.6	7.83	C3	77.0	309
96T-220C4	2.7	21.9	6.90	C4	39.5	90.5
96T-040C5	6.4	4.025	3.135	C5	6.575	23

SCHEMATICS

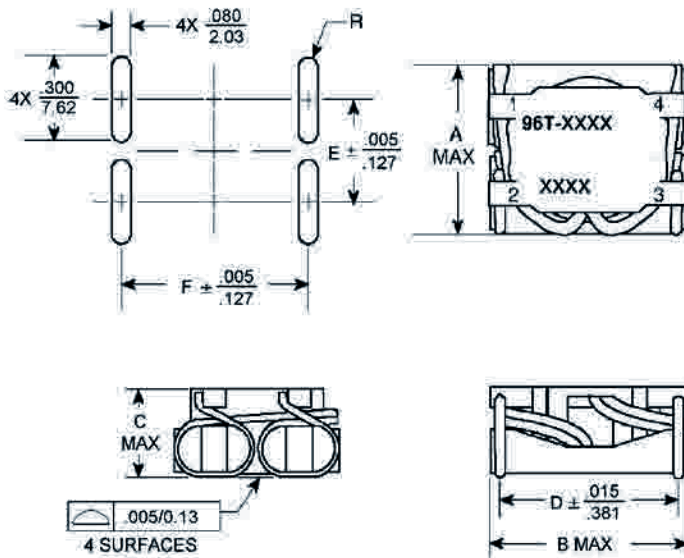


MECHANICAL

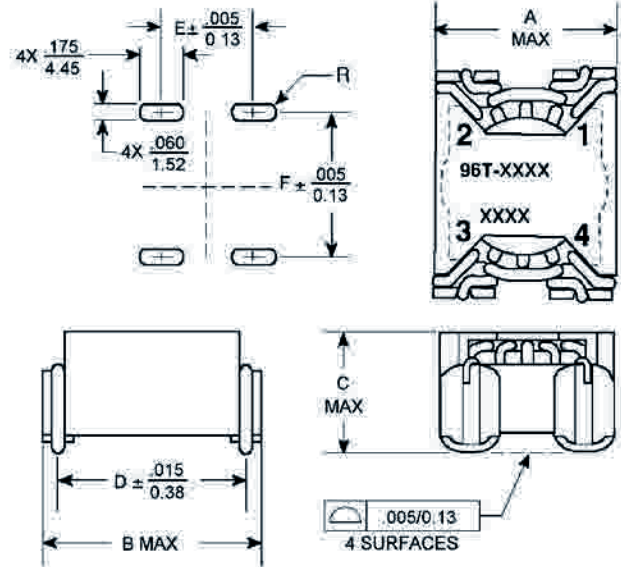
SIZE CODES (inches/mm)

	I4	I5	I6	C3	C4	C5	S1	S2	S3
A	.715/18.16	.800/20.32	1.00/25.4	.560/14.22	.590/14.99	.670/17.02	.551/14.00	.575/14.60	.650/16.50
B	.865/21.97	.910/23.11	1.11/28.19	.645/16.38	.715/18.16	.770/19.56	.630/16.00	.701/17.80	.748/19.00
C	.390/9.91	.390/9.91	.390/9.91	.350/8.89	.390/9.91	.390/9.91	.311/7.90	.350/8.90	.374/9.50
D	.760/10.30	.800/20.32	1.00/25.4	.520/13.21	.600/15.24	.650/16.51	.256/6.50	.295/7.50	.327/8.30
E	.360/9.14	.440/11.18	.620/15.75	.340/8.64	.370/9.40	.445/11.30	.260/6.60	.319/8.10	.354/9.00
F	.770/19.56	.810/20.57	1.010/25.65	.530/13.46	.610/15.49	.660/16.76	.338/8.60	.370/9.40	.445/11.30
G	-	-	-	-	-	-	.531/13.50	.610/15.50	.661/16.80
DIA	-	-	-	-	-	-	.484/12.30	.531/13.50	.606/15.40

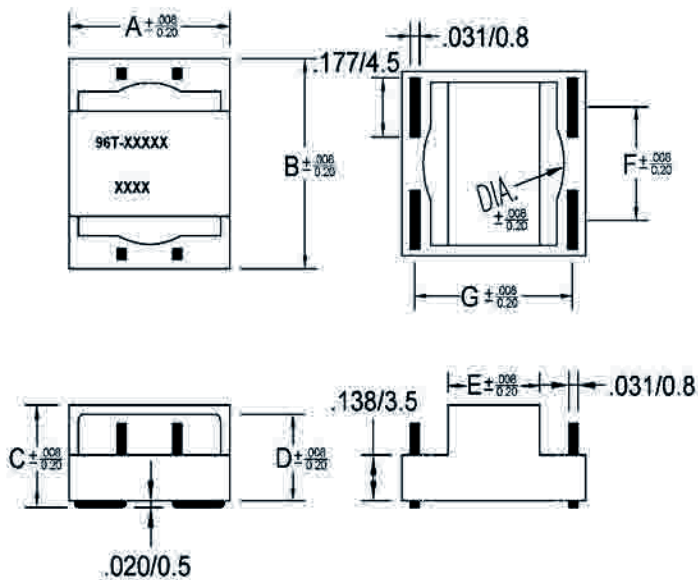
I TYPE



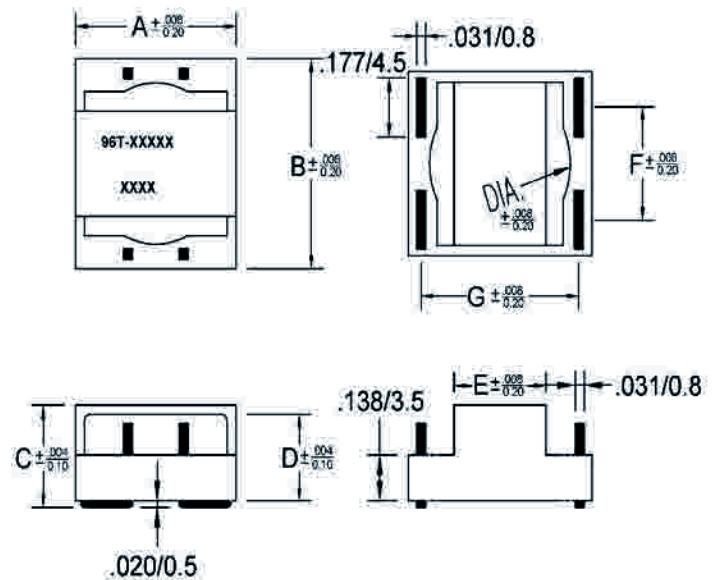
C TYPE



S1 & S2



S3



Dimensions: inch/mm

FEATURES

- MATERIALS MEET UL94V-0 RATING.
- SUITED FOR IR AND VAPOR REFLOW SOLDER.
- FITS IN HALF INCH HIGH BOARDS FOR USE IN LAPTOP AND NOTEDBOOK COMPUTERS.
- FREQUENCY RANGE OF UP TO 1MHz.
- PATENTED, LOW PROFILE, SELF-LEADED DESIGN.



ELECTRICAL SPECIFICATIONS @ 25°C-OPERATING TEMPERATURE -30°C TO +130°C

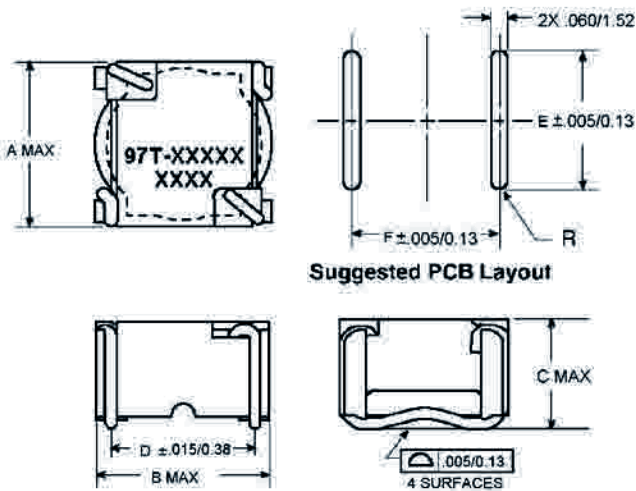
PART NUMBER	REFERENCE VALUES			CONTROL VALUES			CALCULATION DATA		
	IDC (Amps)	L WITH DC LDC(μH)	ET (V-μ sec)	Package	L w/o DC Lo (μH±20%)	DCR R _{DC} (Ω Max)	100 GAUSS ET100 (V-μ Sec)	1 Amp DC H _i (Orsted)	DCR R _N (MΩ NOM)
97T-062L2	1.40	6.20	1.33	L2	7.0	70.0	0.94	21.9	60.3
97T-170L2	1.00	17.6	2.40	L2	22.7	125	1.68	39.3	109
97T-290L3	1.40	29.7	4.60	L3	35.3	166	4.12	23.2	141
97T-580L7	1.30	58.1	7.83	L7	73.0	290	1.09	28.8	233
97T-114L3	0.94	114	10.0	L3	167	380	8.97	50.5	330
97T-191L7	0.90	192	15.7	L7	292	560	14.2	57.7	472
97T-383L7	0.72	383	23.5	L7	672	862	21.3	86.5	750
97T-645L4	0.74	645	36.5	L4	1134	1250	37.2	84.4	1040
97T-102L5	0.71	1070	54.4	L5	1950	1700	56.9	95.7	1480
97T-010L2	3.4	1.01	0.532	L2	1.10	11.0	0.37	8.74	12.5
97T-094L3	2.8	9.4	2.7	L3	12.3	43.4	2.42	13.7	37.8
97T-043L7	2.7	16.2	4.29	L7	21.9	63.0	3.88	15.8	54.7
97T-290L4	2.7	29.1	6.90	L4	40.5	85.0	7.02	15.9	75.8
97T-500L5	2.6	50.0	10.5	L5	72.9	133	11.0	18.5	115
97T-038L3	4.8	3.8	1.76	L3	5.20	17.3	1.58	8.87	14.8
97T-051L7	5.4	5.1	2.51	L7	7.5	17.7	2.27	9.25	14.3
97T-090L4	5.5	9.0	4.06	L4	14.0	22.3	4.13	9.38	19.3
97T-160L5	5.1	16.1	6.27	L5	25.9	32.0	6.55	11.0	30.3
97T-025L7	8.0	2.5	1.77	L7	3.80	8.3	1.61	6.53	7.20
97T-049L4	7.8	4.9	3.04	L4	7.9	12.4	3.10	7.03	10.5
97T-093L5	7.2	9.3	4.92	L5	16.0	18.7	5.15	8.67	16.3
97T-013H7	11.5	1.32	1.33	H7	2.10	4.0	1.20	4.90	3.39
97T-025H4	11.4	2.5	2.23	H4	4.20	5.4	2.27	5.16	4.64
97T-047H5	10.4	4.7	3.58	H5	8.4	8.3	3.75	6.30	7.18
97T-094H6	10.9	9.4	6.84	H6	17.6	12.3	7.93	6.24	10.7
97T-008H7	14.3	0.81	1.035	H7	1.25	2.5	0.94	381	2.16
97T-016H4	13.9	1.68	1.83	H4	2.80	3.6	1.86	4.22	3.16
97T-035H5	12.4	3.5	3.13	H5	6.5	6.6	3.28	5.52	5.75
97T-052H6	15.4	5.2	5.21	H6	10.5	6.2	6.04	4.75	5.30

Inductance measured at 1 MHz/200mv

MARKINGS AND DIMENSION

L & P

Low Current Inductors

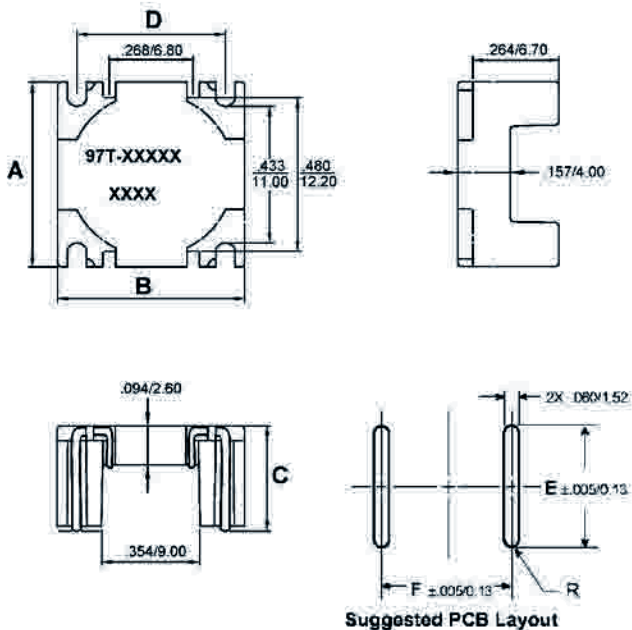


PKG	A	B	C	D	E	F
L2	.340	.340	.270	.260	.300	.270
	8.64	8.64	6.86	6.60	7.62	6.86
L3	.435	.440	.360	.350	.400	.360
	11.05	11.18	9.14	8.89	10.16	9.14
L7	.560	.565	.360	.450	.520	.460
	14.22	14.35	9.14	11.43	13.21	11.68
L4	.590	.615	.390	.500	.550	.510
	14.99	15.62	9.91	12.70	13.97	12.95
L5	.670	.700	.390	.580	.620	.590
	17.02	17.78	9.91	14.73	15.75	14.99
D1	.571	.606	.697	.492	.520	.492
	14.50	15.40	17.70	12.50	13.21	12.50
D3	.555	.559	.303	.449	.472	.449
	14.10	14.20	7.70	11.30	12.00	11.30
P9	.657	.689	.390	.580	.620	.590
	16.70	17.50	9.91	14.73	15.75	14.99

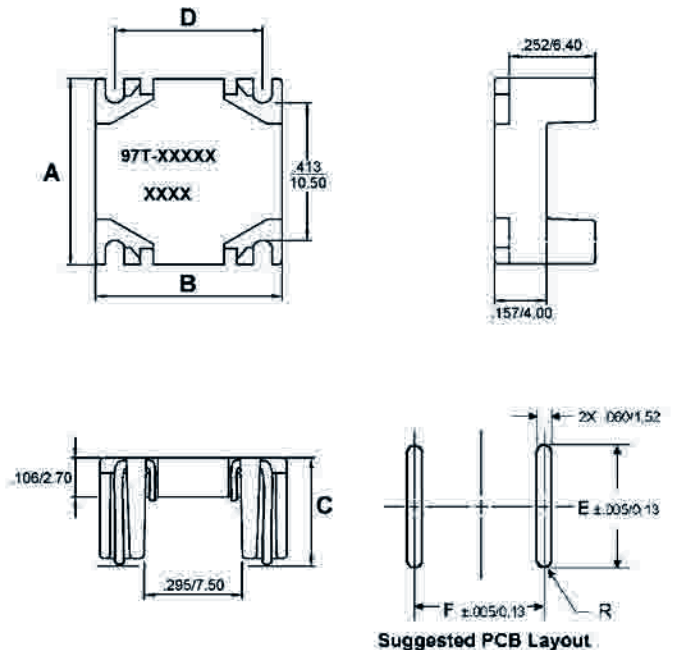
Dimensions: inches/mm

Unless otherwise specified, all tolerances are $\pm .010/\pm 0.25$

D1

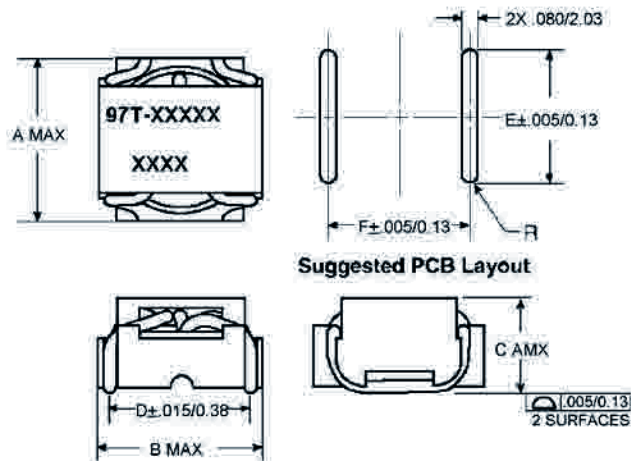


D3



H

High Current Inductors



PKG	A	B	C	D	E	F
H7	.615	.600	.370	.500	.440	.500
	15.62	15.24	9.40	12.70	11.18	12.70
H4	.665	.665	.390	.560	.490	.570
	16.89	16.89	9.91	14.22	12.45	14.48
H5	.740	.740	.390	.630	.560	.640
	18.80	18.80	9.91	16.00	14.22	16.26
H6	.940	.940	.390*	.820	.700	.830
	23.88	23.88	9.91	20.83	17.78	21.08

*Dimension "C" is .400/10.16 for the marked models because of heavier wire gage.

Dimensions: inches/mm

Unless otherwise specified, all tolerances are $\pm 0.010/\pm 0.25$

FEATURES

- COST-EFFECTIVE DESIGNS.
- SEMI-ENCAPSULATED CONSTRUCTION
- MAXIMUM OPERATION TEMPERATURE OF 130°C (Ambient+Rise)
- A 2:1 INDUCTANCE SWING FROM ZERO TO MAXIMUM CURRENT

TEST CONDITIONS

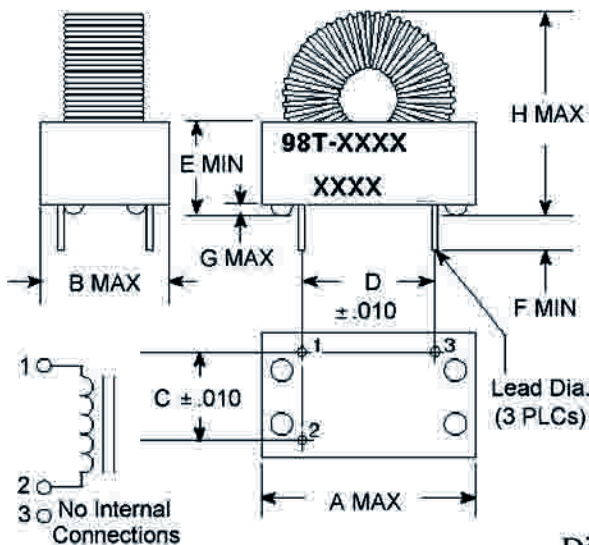
- Inductance ----- 10KHz/20mV



ELECTRICAL SPECIFICATIONS @25°C

REFERENCE OPERATING VALUES						DESIGN CONTROL VALUES				
PART NUMBER	INDUCTANCE TYPICAL (μHy)	IDC (AMPS)	ETOP (V-μ SEC)		ENERGY STORAGE (μJ MIN)	INDUCTANCE NO DC (μHy±20%)	50KHz TEST mV NO DC	DCR (Ω MAX)	SIZE CODE	LEAD DIAMETER (IN ±.003)
			20KHz	40KHz						
98T-1703	17.0	17.0	190	130	2460	40.0	140	0.0065	3	0.081
98T-3204	32.0	16.0	290	200	4100	70.7	270	0.0092	4	0.081
98T-6005	60.0	16.0	390	270	7700	120.0	470	0.012	5	0.081
98T-1401	14.0	10.0	135	95	700	28.5	73	0.009	1	0.057
98T-2302	23.0	11.0	170	120	1400	43.5	130	0.012	2	0.057
98T-4303	43.0	10.0	280	195	2150	85.5	210	0.018	3	0.057
98T-9004	90.0	10.0	430	300	4500	158.0	420	0.028	4	0.057
98T-1445	144.0	10.0	570	400	7200	262.0	700	0.032	5	0.057
98T-3201	32.0	6.6	200	140	700	60.5	110	0.025	1	0.040
98T-5202	52.0	7.0	230	160	1275	92.0	190	0.032	2	0.040
98T-9803	98.0	6.0	400	280	1765	188.0	310	0.048	3	0.040
98T-1754	175.0	6.0	620	425	3150	315.0	560	0.068	4	0.040
98T-3355	335.0	6.0	840	580	6030	571.0	1000	0.095	5	0.040
98T-4013	400	3.6	600	420	2700	688.0	640	0.130	3	0.036

MARKINGS AND DIMENSION



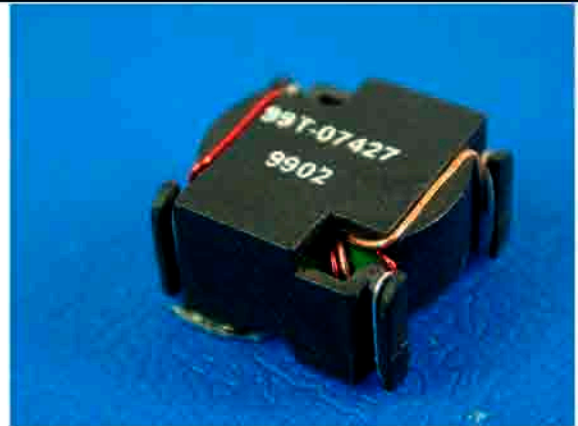
SIZE CODE	1	2	3	4	5	6
A	1.20	1.44	1.60	1.95	2.30	1.30
	30.48	36.57	40.64	49.53	58.42	33.02
B	0.60	0.80	0.80	0.91	1.11	0.90
	15.24	20.32	20.32	23.11	28.21	22.86
C	0.40	0.60	0.60	0.70	0.90	0.66
	10.16	15.24	15.24	17.78	22.85	16.76
D	0.80	0.90	0.90	1.20	1.50	0.75
	20.32	22.86	22.86	30.48	38.10	19.05
E	0.45	0.70	0.70	0.90	1.00	0.41
	11.43	17.78	17.78	22.86	25.4	10.41
F	0.20	0.20	0.20	0.20	0.20	0.10
	5.08	5.08	5.08	5.08	5.08	2.54
G	0.015	0.03	0.03	0.03	0.03	0.015
	0.381	0.76	0.76	0.76	0.76	0.381
H	1.20	1.44	1.72	2.00	2.30	1.40
	30.48	36.57	43.68	50.80	58.42	35.56

Dimensions: inches/mm

Unless otherwise specified, all tolerances are ±.010/±0.25

FEATURES

- SURFACE MOUNT, SELF-LEADED INDUCTOR
- SOLUTION BASED ON EFFICIENCY, USING ALLID MICRILITE CORE
- DESIGNED FOR NOTEBOOKS, PORTABLES AND PCAs
- WIDE VARIETY OF OTHER INDUCTOR SIZES AND VALUES AVAILABLE



TEST CONDITIONS

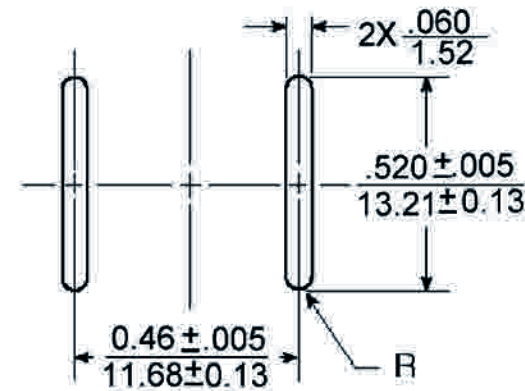
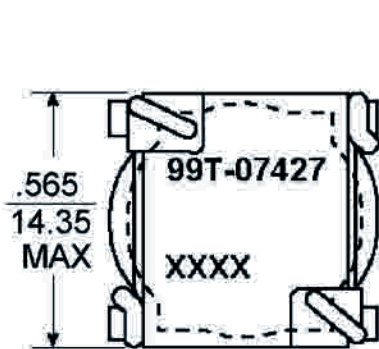
- Inductance ----- 200KHz/20mV

ELECTRICAL SPECIFICATIONS @25°C - Operating temperature -30°C TO +130°C

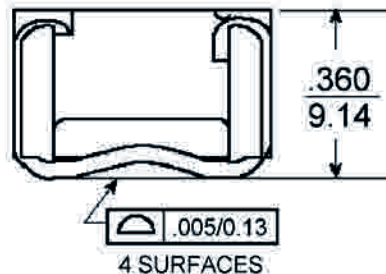
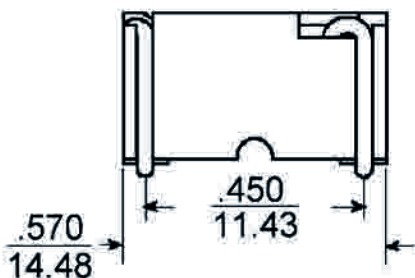
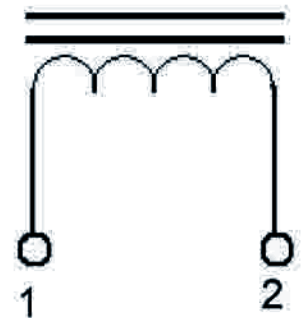
PART NUMBER	REFERENCE VALUES				CONTROL VALUES		CALCULATION DATA	
	IDC (Amp)	L @DC LDC (μH)	ET (V-μsec)	STORAGE CAPACITY (μJoules)	LW/O DC LO ±20% (μH)	DCR MAX (Ω)	100 GAUSS ET100 (VJoules)	1 Amp DC H1 (Orsted)
99T-074L7	4.96	7.4	14.34	90.43	12.7	18.2	1.20	7.42

MARKINGS AND DIMENSION

SCHEMATIC



Suggested PCB Layout



Dimensions: inches/mm

Unless otherwise specified, all tolerances are ±.010/±0.25