

# I-TECH

INDUCTIVE TECHNOLOGIES, INC.



- Toroidal and Pot Core Inductors
  - Pot Core Flyback Transformers
  - Drum Core Power Inductors
  - Surface Mount Power Inductors
  - Current Sense Transformers
- 
- T1/CEPT/ISDN Primary Transformers
  - Surface Mount Toroids
  - Common Mode Chokes

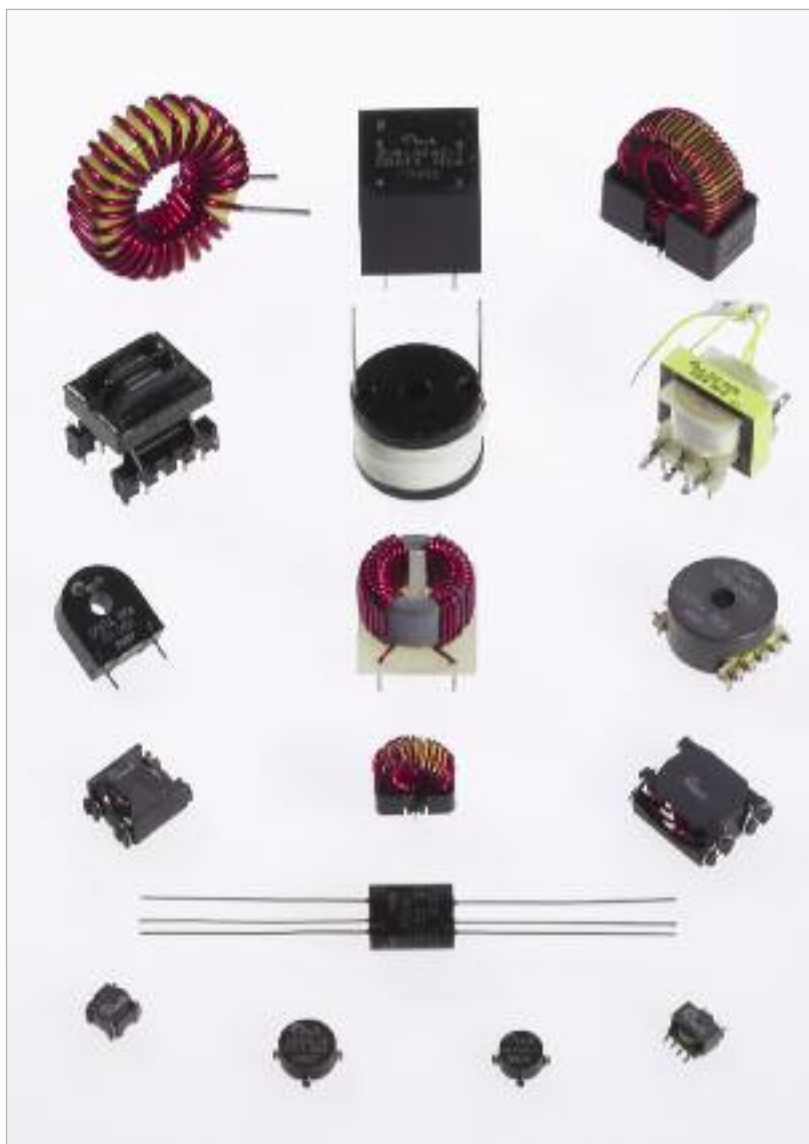


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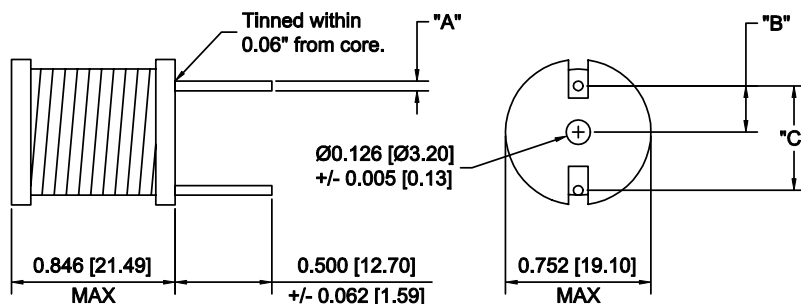
Inductive Technologies (I-Tech) was originally founded in 1998 when the magnetics division of C&K Components, Inc. of Watertown, Massachusetts was spun off. In the spring of 2010, Electro Technik Industries, Inc. (ETI) acquired Inductive Technologies.

With this purchase, ETI obtained a magnetics company with an extensive line of standard products. All of the components are still manufactured in Costa Rica. Since an Electro Technik manufacturing facility in San Jose and I-Tech's were practically neighbors before the acquisition, the integration of the two has been made virtually seamless.



## Drum Core Power Inductors

- Broad range of inductance values; 0.8-1000 $\mu$ H.
- From low to high currents; 0.1 – 30 Amps.
- Small PCB space, in 5 standard sizes.
- Very stable inductance over current range.
- Class B (130°C) insulation system.
- Other sizes and values are available.



Size 2

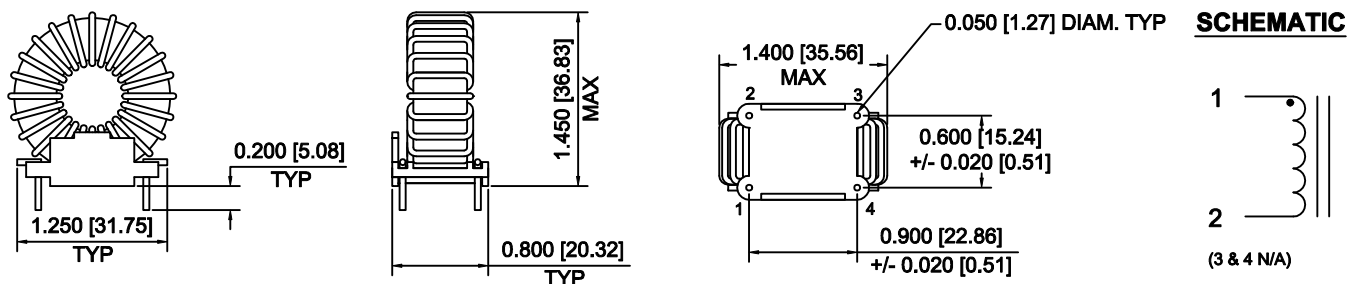
MODEL NUMBER	INDUCTANCE AT RATED CURRENT ( $\mu$ H) +/-10%	RATED CURRENT (A)	MAXIMUM DCR @ 25°C (Ohm)	LEAD WIRE "A" (AWG)	DIMENSION		MODEL NUMBER	INDUCTANCE AT RATED CURRENT ( $\mu$ H) +/-10%	RATED CURRENT (A)	MAXIMUM DCR @ 25 C Ohms	LEAD WIRE "A"	DIMENSION	
					"B" (IN)	"C" (IN)						"B" (IN)	"C" (IN)
423-0116	1000.0	0.50	0.650	25	.226	.553	423-0166	125.0	2.0	0.0840	21	.231	.555
423-0117	39.0	0.75	0.100	23	.228	.483	423-0167	168.0	2.0	0.0980	21	.231	.555
423-0118	62.0	0.75	0.120	23	.228	.483	423-0168	250.0	2.0	0.1470	22	.231	.555
423-0119	80.0	0.75	0.140	23	.228	.483	423-0176	82.0	3.0	0.0640	21	.231	.552
423-0120	100.0	0.75	0.160	23	.228	.533	423-0177	108.0	3.0	0.0720	21	.231	.552
423-0121	133.0	0.75	0.180	23	.228	.533	423-0178	131.0	3.0	0.0840	21	.231	.552
423-0122	150.0	0.75	0.190	23	.228	.533	423-0179	168.0	3.0	0.0950	21	.231	.552
423-0123	180.0	0.75	0.210	23	.228	.533	423-0186	25.0	5.0	0.0220	18	.243	.529
423-0124	200.0	0.75	0.220	23	.228	.533	423-0187	30.0	5.0	0.0240	18	.243	.615
423-0125	220.0	0.75	0.230	23	.228	.533	423-0188	40.0	5.0	0.0290	18	.243	.615
423-0126	270.0	0.75	0.250	23	.228	.533	423-0189	50.0	5.0	0.0320	18	.243	.615
423-0127	330.0	0.75	0.270	23	.228	.533	423-0190	58.0	5.0	0.0350	18	.243	.615
423-0128	450.0	0.75	0.320	23	.228	.533	423-0201	25.0	7.5	0.0220	18	.243	.529
423-0129	660.0	0.75	0.380	23	.228	.533	423-0202	33.0	7.5	0.0260	18	.243	.615
423-0130	39.0	1.00	0.060	22	.230	.489	423-0203	47.0	7.5	0.0300	18	.243	.615
423-0131	47.0	1.00	0.080	22	.230	.489	423-0216	15.8	10.0	0.0140	17	.245	.538
423-0132	56.0	1.00	0.090	22	.230	.489	423-0217	18.0	10.0	0.0150	17	.245	.538
423-0133	68.0	1.00	0.100	22	.230	.489	423-0231	3.7	15.0	0.0054	16	.248	.549
423-0134	82.0	1.00	0.110	22	.230	.545	423-0232	4.8	15.0	0.0061	16	.248	.549
423-0135	100.0	1.00	0.120	22	.230	.545	423-0233	6.0	15.0	0.0067	16	.248	.549
423-0136	120.0	1.00	0.130	22	.230	.545	423-0234	8.7	15.0	0.0079	16	.248	.549
423-0137	150.0	1.00	0.150	22	.230	.545	423-0235	12.0	15.0	0.0092	16	.248	.549
423-0138	200.0	1.00	0.170	22	.230	.545	423-0249	2.8	20.0	0.0031	14	.255	.577
423-0139	250.0	1.00	0.190	22	.230	.545	423-0250	3.7	20.0	0.0035	14	.255	.577
423-0140	330.0	1.00	0.210	22	.230	.589	423-0251	4.8	20.0	0.0040	14	.255	.577
423-0142	180.0	1.50	0.026	20	.234	.503	423-0252	6.0	20.0	0.0045	14	.255	.577
423-0143	22.0	1.50	0.030	20	.234	.503	423-0265	0.8	25.0	0.0020	14	.255	.577
423-0144	27.0	1.50	0.032	20	.234	.503	423-0266	1.3	25.0	0.0022	14	.255	.577
423-0145	33.0	1.50	0.035	20	.234	.503	423-0267	2.0	25.0	0.0026	14	.255	.577
423-0146	40.0	1.50	0.038	20	.234	.503	423-0268	2.8	25.0	0.0028	14	.255	.577
423-0147	50.0	1.50	0.045	20	.234	.573	423-0269	3.7	25.0	0.0032	14	.255	.577
423-0148	66.0	1.50	0.050	20	.234	.573	423-0279	0.8	30.0	0.0013	13	.259	.593
423-0149	100.0	1.50	0.060	20	.234	.573	423-0280	1.3	30.0	0.0016	13	.259	.593
423-0165	103.0	2.00	0.073	21	.231	.555	423-0281	2.0	30.0	0.0019	13	.259	.593

# Vertical Mount Toroidal Inductors

## 418 SERIES VERTICAL MOUNT TOROIDAL INDUCTORS

- Open Frame construction in Vertical mount with through-hole mounting.
- Powdered Iron Core
- High Inductance to space ratio.

- Low heat and noise (EMI/RFI) emission.
- Built to meet UL Class B (130C) requirements.



MODEL NUMBER	REFERENCE OPERATING VALUES			DESIGN CONTROL VALUES	
	INDUCTANCE VALUE ( $\mu\text{H}$ )	MINIMUM ET ( $\text{V}\mu\text{s}$ )	RATED CURRENT ( $\text{A}_{\text{dc}}$ )	INDUCTANCE NO DC +/- 20% ( $\mu\text{H}$ )*	MAXIMUM DCR (Ohm)
<b>418-0933</b>	1500	200	0.62	1150	1.00
<b>418-0945</b>	2200	200	0.42	1730	1.80

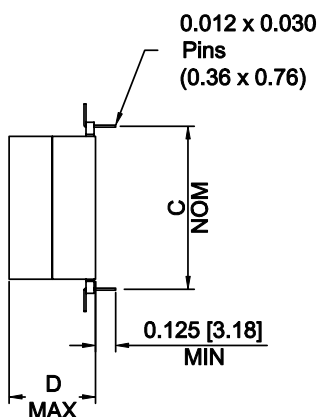
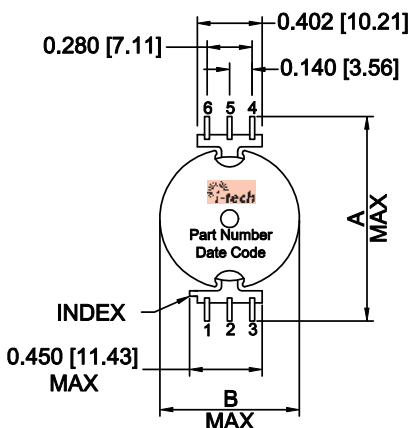
Note: Originally designed for use with National Semiconductor's Simple Switchers Step-Down Voltage Regulator Series: LM1575-XX/LM2575-XX and LM1577-XX/LM2577-XX.

- Measured criteria: 10mV / 15 KHz.

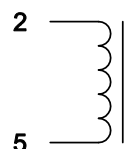
## Toroidal and Pot Core Inductors

### 415 SERIES POT CORE INDUCTOR

- Inductors from 47  $\mu\text{H}$  to 2200  $\mu\text{H}$ .
- Current ratings from 0.42 A to 3 A.
- High Inductance to space ratio.
- Low heat and noise (EMI/RFI) emission.
- Meets UL Class B (130°C) requirements.



### SCHEMATIC



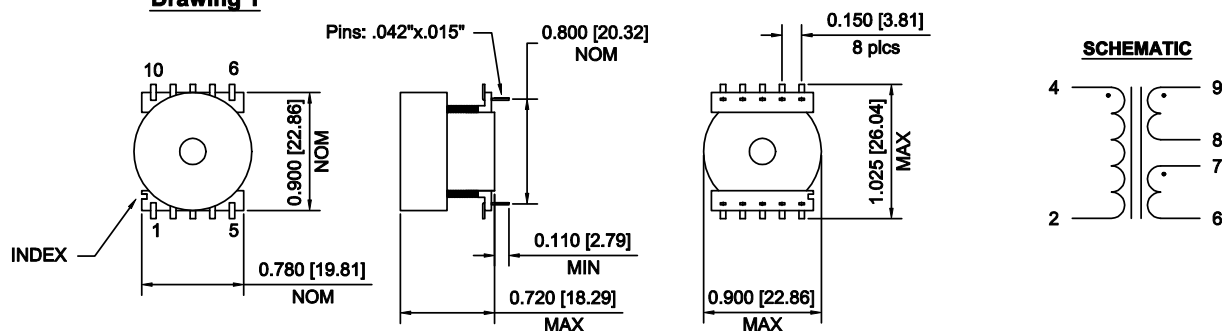
MODEL NUMBER	REFERENCE OPERATING VALUES			DESIGN CONTROL VALUES		DIMENSIONS +/- 0.030 (0.76)			
	INDUCANCE VALUE ( $\mu\text{H}$ )	MINIMUM ET ( $\text{V}\mu\text{s}$ )	RATED CURRENT (Adc)	INDUCTANCE NO DC +/- 20% ( $\mu\text{H}$ )*	MAXIMUM DCR (Ohm)	A In. (mm)	B In. (mm)	C In. (mm)	D In. (mm)
415-0922	220	90	1.30	220	0.070	1.150 (29.51)	0.725 (18.42)	0.850 (21.59)	0.430 (10.92)
415-0926	330	90	1.00	330	0.110	1.150	0.725	0.850	0.430
415-0927	470	90	0.95	470	0.130	1.150	0.725	0.850	0.430
415-0928	680	90	0.62	680	0.175	1.150	0.725	0.850	0.430
415-0932	47	90	3.00	47	0.022	1.150	0.725	0.850	0.430
415-0945	2200	250	0.42	2200	0.900	1.150	0.725	0.850	0.430
415-0930	100	90	3.00	100	0.035	1.287 (32.69)	0.880 (22.00)	0.990 (25.15)	0.536 (13.76)
415-0931	68	90	3.00	68	0.025	1.287	0.880	0.990	0.536
415-0933	1500	250	0.62	1500	0.260	1.287	0.880	0.990	0.536
415-0934	1000	250	0.90	1000	0.250	1.287	0.880	0.990	0.536
415-0935	680	250	1.30	680	0.280	1.287	0.880	0.990	0.536
415-0936	150	250	3.00	150	0.052	1.287	0.880	0.990	0.536
415-0953	150	90	2.00	150	0.040	1.287	0.880	0.990	0.536
430-0634	470	250	1.90	470	0.058	1.750 (44.45)	1.220 (30.99)	1.414 (35.92)	0.790 (20.07)
430-0635	330	250	3.00	330	0.065	1.750	1.220	1.414	0.790
430-0636	220	250	3.00	220	0.040	1.750	1.220	1.414	0.790

Note: Originally designed for use with National Semiconductor's Simple Switchers Step-Down Voltage Regulator Series: LM1575-XX/LM2575-XX and LM1577-XX/LM2577-XX.

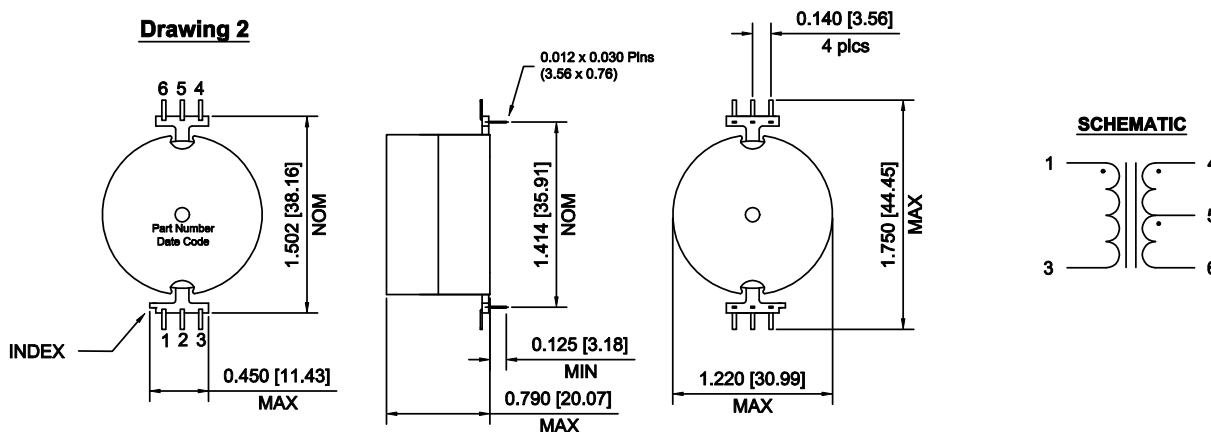
## Pot Core Flyback Transformers

- Pot Core/ Touchtone designs.
- High Inductance to space ratio.
- Low heat and noise (EMI/RFI) emission.
- Built to meet UL Class B (130°C).
- Originally designed for use with National Semiconductor's Simple Switchers. Step-Down Voltage Regulator Series: LM1575-XX/LM2575-XX and LM1577-XX/LM2577-XX.
- Hipot tested 500Vdc

**Drawing 1**



**Drawing 2**

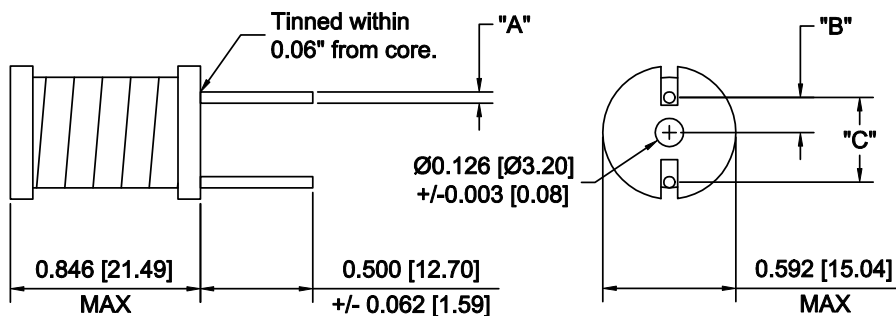


MODEL NUMBER	PRIMARY INDUCTANCE (μH)	INPUT VOLTAGE (V)	DUAL OUTPUT VOLTAGE (V)	MAXIMUM OUPUT CURRENT (mA)	DRAWING AND SCHEMATIC
326-0637	100 (90-110)	5	+/- 15V	225	1
330-0202	200 (180-210)	12	+/- 15V	575	2
330-0203	250 (240-270)	15	+/- 15V	700	2

\* Measured criteria: 0.1V @ 10kHz.

## Drum Core Power Inductors

- Broad range of inductance values; 0.8-1000 $\mu$ H.
- From low to high currents; 0.1 – 30 Amps.
- Small PCB space, in 5 standard sizes.
- Very stable inductance over current range.
- Class B (130°C) insulation system.
- Other sizes and values are available.



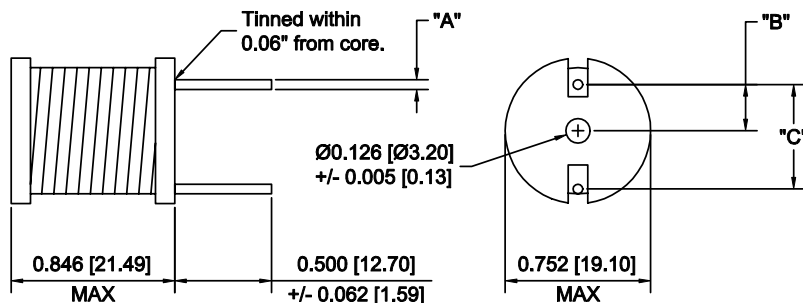
Size 1													
MODEL NUMBER	INDUCTANCE AT RATED CURRENT ( $\mu$ H) $\pm 10\%$	RATED CURRENT (A)	MAXIMUM DCR @ 25°C (Ohm)	LEAD WIRE "A" (AWG)	DIMENSION		MODEL NUMBER	INDUCTANCE AT RATED CURRENT ( $\mu$ H) $\pm 10\%$	RATED CURRENT (A)	MAXIMUM DCR @ 25°C (Ohm)	LEAD WIRE "A" (AWG)	DIMENSION	
					"B" (IN)	"C" (IN)						"B" (IN)	"C" (IN)
423-0107	120.0	0.5	0.200	25	.187	.394	423-0182	9.5	5.0	0.0130	18	.198	.439
423-0108	185.0	0.5	0.240	25	.187	.434	423-0183	12.5	5.0	0.0150	18	.198	.439
423-0109	200.0	0.5	0.250	25	.187	.434	423-0184	16.0	5.0	0.0170	18	.198	.439
423-0110	240.0	0.5	0.270	25	.187	.434	423-0185	20.0	5.0	0.0190	18	.198	.439
423-0111	300.0	0.5	0.290	25	.187	.434	423-0194	1.6	7.5	0.0060	18	.198	.439
423-0112	400.0	0.5	0.340	25	.187	.434	423-0195	3.0	7.5	0.0080	18	.198	.439
423-0113	500.0	0.5	0.380	25	.187	.474	423-0196	5.7	7.5	0.0100	18	.198	.439
423-0114	600.0	0.5	0.450	25	.187	.474	423-0197	8.2	7.5	0.0130	18	.198	.439
423-0115	680.0	0.5	0.550	25	.187	.474	423-0198	11.0	7.5	0.0150	18	.198	.439
423-0154	5.4	2.0	0.120	20	.194	.423	423-0199	14.0	7.5	0.0170	18	.198	.439
423-0155	6.8	2.0	0.140	20	.194	.423	423-0200	20.0	7.5	0.0190	18	.198	.439
423-0156	10.9	2.0	0.180	20	.194	.423	423-0205	1.0	10.0	0.0040	17	.201	.450
423-0157	12.4	2.0	0.020	20	.194	.423	423-0206	1.6	10.0	0.0043	17	.201	.450
423-0158	15.9	2.0	0.022	20	.194	.423	423-0207	2.2	10.0	0.0054	17	.201	.450
423-0159	21.8	2.0	0.025	20	.194	.423	423-0208	2.9	10.0	0.0058	17	.201	.450
423-0160	26.3	2.0	0.027	22	.194	.423	423-0209	3.8	10.0	0.0066	17	.201	.450
423-0161	31.2	2.0	0.032	20	.194	.493	423-0210	4.7	10.0	0.0074	17	.201	.450
423-0162	36.0	2.0	0.034	20	.194	.493	423-0211	5.7	10.0	0.0082	17	.201	.450
423-0163	51.0	2.0	0.040	20	.194	.493	423-0212	6.9	10.0	0.0092	17	.201	.450
423-0164	77.0	2.0	0.061	21	.192	.474	423-0213	8.1	10.0	0.0096	17	.201	.450
423-0169	10.9	3.0	0.012	18	.198	.439	423-0214	11.0	10.0	0.0113	17	.201	.450
423-0170	15.9	3.0	0.014	18	.198	.439	423-0215	14.2	10.0	0.0128	17	.201	.450
423-0171	19.7	3.0	0.016	18	.198	.439	423-0227	1.0	15.0	0.0032	16	.204	.461
423-0172	25.0	3.0	0.028	20	.195	.425	423-0228	1.6	15.0	0.0037	16	.204	.461
423-0173	34.0	3.0	0.034	20	.195	.495	423-0229	2.2	15.0	0.0042	16	.204	.461
423-0174	51.0	3.0	0.042	20	.195	.495	423-0230	2.9	15.0	0.0047	16	.204	.461
423-0175	66.0	3.0	0.047	20	.195	.495	423-0246	1.0	20.0	0.0026	15	.207	.474
423-0180	4.7	5.0	0.009	18	.198	.439	423-0247	1.6	20.0	0.0030	15	.207	.474
423-0181	6.9	5.0	0.011	18	.198	.439	423-0248	2.2	20.0	0.0034	15	.207	.474

- Measured criteria: 1V / 15 KHz.



## Drum Core Power Inductors

- Broad range of inductance values; 0.8-1000 $\mu$ H.
- From low to high currents; 0.1 – 30 Amps.
- Small PCB space, in 5 standard sizes.
- Very stable inductance over current range.
- Class B (130°C) insulation system.
- Other sizes and values are available.



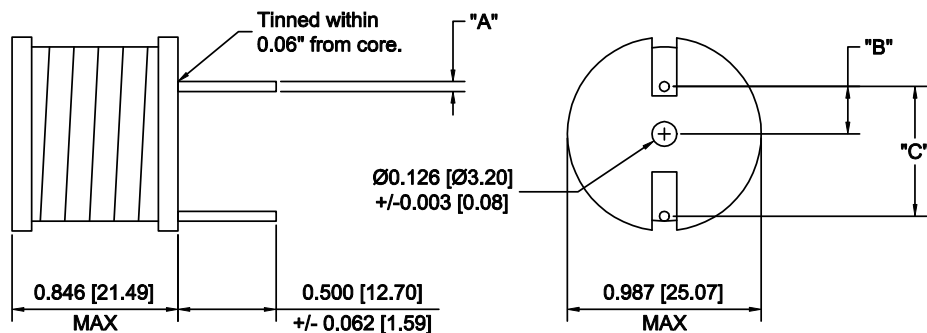
Size 2

MODEL NUMBER	INDUCTANCE AT RATED CURRENT ( $\mu$ H) +/-10%	RATED CURRENT (A)	MAXIMUM DCR @ 25°C (Ohm)	LEAD WIRE "A" (AWG)	DIMENSION		MODEL NUMBER	INDUCTANCE AT RATED CURRENT ( $\mu$ H) +/-10%	RATED CURRENT (A)	MAXIMUM DCR @ 25 C Ohms	LEAD WIRE "A"	DIMENSION	
					"B" (IN)	"C" (IN)						"B" (IN)	"C" (IN)
423-0116	1000.0	0.50	0.650	25	.226	.553	423-0166	125.0	2.0	0.0840	21	.231	.555
423-0117	39.0	0.75	0.100	23	.228	.483	423-0167	168.0	2.0	0.0980	21	.231	.555
423-0118	62.0	0.75	0.120	23	.228	.483	423-0168	250.0	2.0	0.1470	22	.231	.555
423-0119	80.0	0.75	0.140	23	.228	.483	423-0176	82.0	3.0	0.0640	21	.231	.552
423-0120	100.0	0.75	0.160	23	.228	.533	423-0177	108.0	3.0	0.0720	21	.231	.552
423-0121	133.0	0.75	0.180	23	.228	.533	423-0178	131.0	3.0	0.0840	21	.231	.552
423-0122	150.0	0.75	0.190	23	.228	.533	423-0179	168.0	3.0	0.0950	21	.231	.552
423-0123	180.0	0.75	0.210	23	.228	.533	423-0186	25.0	5.0	0.0220	18	.243	.529
423-0124	200.0	0.75	0.220	23	.228	.533	423-0187	30.0	5.0	0.0240	18	.243	.615
423-0125	220.0	0.75	0.230	23	.228	.533	423-0188	40.0	5.0	0.0290	18	.243	.615
423-0126	270.0	0.75	0.250	23	.228	.533	423-0189	50.0	5.0	0.0320	18	.243	.615
423-0127	330.0	0.75	0.270	23	.228	.533	423-0190	58.0	5.0	0.0350	18	.243	.615
423-0128	450.0	0.75	0.320	23	.228	.533	423-0201	25.0	7.5	0.0220	18	.243	.529
423-0129	660.0	0.75	0.380	23	.228	.533	423-0202	33.0	7.5	0.0260	18	.243	.615
423-0130	39.0	1.00	0.060	22	.230	.489	423-0203	47.0	7.5	0.0300	18	.243	.615
423-0131	47.0	1.00	0.080	22	.230	.489	423-0216	15.8	10.0	0.0140	17	.245	.538
423-0132	56.0	1.00	0.090	22	.230	.489	423-0217	18.0	10.0	0.0150	17	.245	.538
423-0133	68.0	1.00	0.100	22	.230	.489	423-0231	3.7	15.0	0.0054	16	.248	.549
423-0134	82.0	1.00	0.110	22	.230	.545	423-0232	4.8	15.0	0.0061	16	.248	.549
423-0135	100.0	1.00	0.120	22	.230	.545	423-0233	6.0	15.0	0.0067	16	.248	.549
423-0136	120.0	1.00	0.130	22	.230	.545	423-0234	8.7	15.0	0.0079	16	.248	.549
423-0137	150.0	1.00	0.150	22	.230	.545	423-0235	12.0	15.0	0.0092	16	.248	.549
423-0138	200.0	1.00	0.170	22	.230	.545	423-0249	2.8	20.0	0.0031	14	.255	.577
423-0139	250.0	1.00	0.190	22	.230	.545	423-0250	3.7	20.0	0.0035	14	.255	.577
423-0140	330.0	1.00	0.210	22	.230	.589	423-0251	4.8	20.0	0.0040	14	.255	.577
423-0142	180.0	1.50	0.026	20	.234	.503	423-0252	6.0	20.0	0.0045	14	.255	.577
423-0143	22.0	1.50	0.030	20	.234	.503	423-0265	0.8	25.0	0.0020	14	.255	.577
423-0144	27.0	1.50	0.032	20	.234	.503	423-0266	1.3	25.0	0.0022	14	.255	.577
423-0145	33.0	1.50	0.035	20	.234	.503	423-0267	2.0	25.0	0.0026	14	.255	.577
423-0146	40.0	1.50	0.038	20	.234	.503	423-0268	2.8	25.0	0.0028	14	.255	.577
423-0147	50.0	1.50	0.045	20	.234	.573	423-0269	3.7	25.0	0.0032	14	.255	.577
423-0148	66.0	1.50	0.050	20	.234	.573	423-0279	0.8	30.0	0.0013	13	.259	.593
423-0149	100.0	1.50	0.060	20	.234	.573	423-0280	1.3	30.0	0.0016	13	.259	.593
423-0165	103.0	2.00	0.073	21	.231	.555	423-0281	2.0	30.0	0.0019	13	.259	.593

- Measured criteria: 1V / 15 KHz.

## Drum Core Power Inductors

- Broad range of inductance values; 0.8-1000 $\mu$ H.
- From low to high currents; 0.1 – 30 Amps.
- Small PCB space, in 5 standard sizes.
- Very stable inductance over current range.
- Class B (130°C) insulation system.
- Other sizes and values are available.



Size 3						
MODEL NUMBER	INDUCTANCE AT RATED CURRENT ( $\mu$ H) +/-10%	RATED CURRENT (A)	MAXIMUM DCR @ 25°C (Ohm)	LEAD WIRE "A" (AWG)	DIMENSION	
					"B" (IN)	"C" (IN)
423-0141	500.0	1.0	0.280	22	.270	.680
423-0150	130.0	1.5	0.800	20	.273	.652
423-0151	160.0	1.5	0.900	20	.273	.652
423-0152	220.0	1.5	0.100	20	.273	.722
423-0153	330.0	1.5	0.130	20	.273	.722
423-0191	76.0	5.0	0.044	18	.278	.685
423-0192	87.0	5.0	0.047	18	.278	.685
423-0193	100.0	5.0	0.050	18	.278	.685
423-0204	66.0	7.5	0.040	18	.278	.685
423-0218	21.0	10.0	0.014	16	.284	.619
423-0219	27.0	10.0	0.160	16	.284	.727
423-0220	33.0	10.0	0.018	16	.284	.727
423-0221	40.0	10.0	0.020	16	.284	.727
423-0222	49.0	10.0	0.022	16	.284	.727

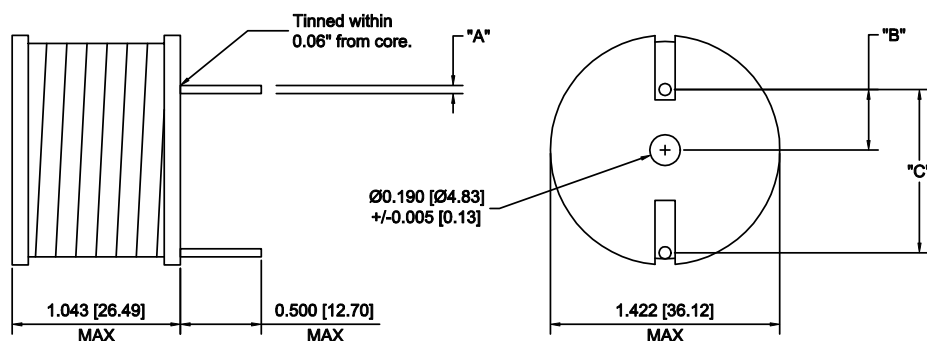
  

MODEL NUMBER	INDUCTANCE AT RATED CURRENT ( $\mu$ H) +/-10%	RATED CURRENT (A)	MAXIMUM DCR @ 25°C (Ohm)	LEAD WIRE "A" (AWG)	DIMENSION	
					"B" (IN)	"C" (IN)
423-0236	16.0	15.0	0.0100	15	.284	.632
423-0237	18.5	15.0	0.0106	15	.284	.748
423-0238	21.0	15.0	0.0113	15	.284	.748
423-0253	8.0	20.0	0.0057	14	.290	.647
423-0254	9.7	20.0	0.0062	14	.290	.647
423-0270	5.0	25.0	0.0034	13	.294	.663
423-0271	6.4	25.0	0.0038	13	.294	.663
423-0272	8.0	25.0	0.0045	13	.294	.663
423-0282	2.7	30.0	0.0020	12	.298	.680
423-0283	3.7	30.0	0.0024	12	.298	.680
423-0284	5.0	30.0	0.0027	12	.298	.680
423-0285	6.4	30.0	0.0030	12	.298	.680
423-0286	8.0	30.0	0.0034	12	.298	.680

- Measured criteria: 1V / 15 KHz.

## Drum Core Power Inductors

- Broad range of inductance values; 0.8-1000 $\mu$ H.
- From low to high currents; 0.1 – 30 Amps.
- Small PCB space, in 5 standard sizes.
- Very stable inductance over current range.
- Class B (130°C) insulation system.
- Other sizes and values are available.



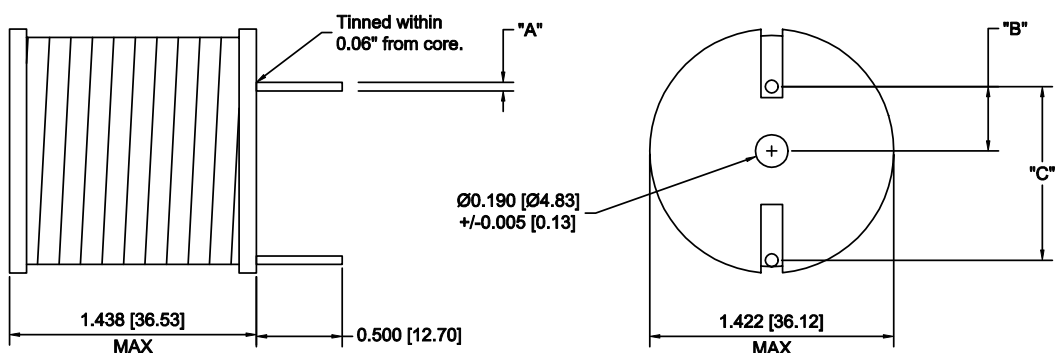
Size 4

MODEL NUMBER	INDUCTANCE AT RATED CURRENT ( $\mu$ H) +/-10%	RATED CURRENT (A)	MAXIMUM DCR @ 25°C (Ohm)	LEAD WIRE "A" (AWG)	DIMENSION		MODEL NUMBER	INDUCTANCE AT RATED CURRENT ( $\mu$ H) +/-10%	RATED CURRENT (A)	MAXIMUM DCR @ 25°C (Ohm)	LEAD WIRE "A" (AWG)	DIMENSION	
					"B" (IN)	"C" (IN)						"B" (IN)	"C" (IN)
423-0223	57.0	10.0	0.0240	15	0.442	0.944	423-0273	11.2	25.0	0.0050	12	0.454	1.002
423-0224	68.0	10.0	0.0260	15	0.442	1.064	423-0274	16.4	25.0	0.0060	12	0.454	1.002
423-0225	81.0	10.0	0.0280	15	0.442	1.064	423-0275	22.6	25.0	0.0070	12	0.454	1.002
423-0226	100.0	10.0	0.0300	15	0.442	1.064	423-0287	11.2	30.0	0.0040	11	0.459	1.011
423-0239	26.0	15.0	0.0120	14	0.445	0.957	423-0288	16.4	30.0	0.0048	11	0.459	1.011
423-0240	34.0	15.0	0.0137	14	0.445	0.957	423-0289	22.6	30.0	0.0056	11	0.459	1.200
423-0241	42.0	15.0	0.0153	14	0.445	1.073							
423-0242	42.0	15.0	0.0170	14	0.445	1.073							
423-0243	68.0	15.0	0.0200	14	0.445	1.073							
423-0255	11.2	20.0	0.0061	13	0.450	0.975							
423-0256	16.4	20.0	0.0073	13	0.450	0.975							
423-0257	22.5	20.0	0.0085	13	0.450	0.975							
423-0258	26.0	20.0	0.0091	13	0.450	0.975							
423-0259	34.0	20.0	0.0103	13	0.450	1.125							
423-0260	38.0	20.0	0.0110	13	0.450	1.125							
423-0261	47.0	20.0	0.0120	13	0.450	1.125							

- Measured criteria: 1V / 15 KHz.

## Drum Core Power Inductors

- Broad range of inductance values; 0.8-1000uH.
- From low to high currents; 0.1 – 30 Amps.
- Small PCB space, in 5 standard sizes.
- Very stable inductance over current range.
- Class B (130°C) insulation system.
- Other sizes and values are available.



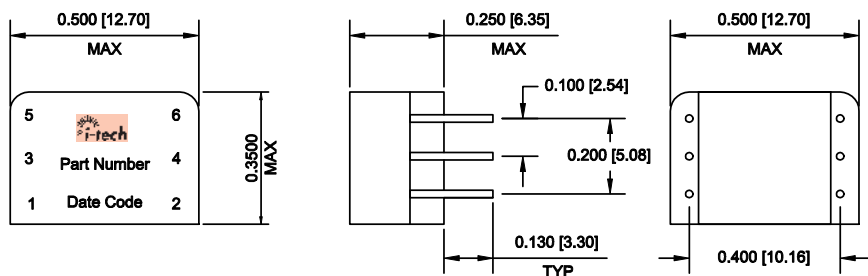
Size 5													
MODEL NUMBER	INDUCTANCE AT RATED CURRENT (μH) +/-10%	RATED CURRENT (A)	MAXIMUM DCR @ 25°C (Ohm)	LEAD WIRE "A" (AWG)	DIMENSION		MODEL NUMBER	INDUCTANCE AT RATED CURRENT (μH) +/-10%	RATED CURRENT (A)	MAXIMUM DCR @ 25°C (Ohm)	LEAD WIRE "A" (AWG)	DIMENSION	
					"B" (IN)	"C" (IN)						"B" (IN)	"C" (IN)
423-0244	83.0	15.0	0.0180	13	.450	1.200	423-0276	26.4	25.0	0.0064	11	0.459	1.011
423-0245	100.0	15.0	0.0200	13	.450	1.200	423-0277	33.7	25.0	0.0072	11	0.459	1.011
423-0262	56.0	20.0	0.0120	12	.454	0.992	423-0278	46.2	25.0	0.0084	11	0.459	1.200
423-0263	66.0	20.0	0.0130	12	.454	1.160	423-0290	30.0	30.0	0.0068	11	0.459	1.011
423-0264	77.0	20.0	0.0140	12	.454	1.160	423-0291	37.6	30.0	0.0076	11	0.459	1.011

- Measured criteria: 1V / 15 KHz.

# Primary Transformers T1/CEPT/ISDN

- Normal temperature range: 0°C to 70°C.
- Extended temperature range: -40°C to 85°C.
- Provides 1500Vrms isolation.

- Designed to match the leading transceiver chips.
- Through hole mounting.

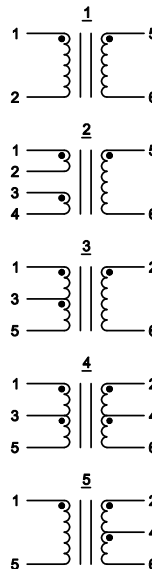


Unused pins are not provided.  
Leads are Solderable 24AWG  
Tolerance +/- 0.010 (0.25)

## Normal Temperature Range

Model number	Turns ratio P:S +/-5%	OCL@25C mH, Min *	L <sub>L</sub> uH Max	C <sub>w/w</sub> pF, Max	DCR Pri Ohm, Max	DCR Sec. Ohm, Max	Schematic	Primary pins
318-3000	1:1:1 (2CT)	1.25	0.50	20	0.65	0.65&0.65	2	1-2
318-3001	1CT:3CT	1.25	0.50	35	0.65	1.55	4	1-5
318-3002	1:1	1.25	0.50	20	0.65	0.65	1	1-2
318-3003	1CT:1	1.25	0.80	20	0.65	0.65	3	1-5
318-3004	1:1.36	1.25	0.80	30	0.65	0.75	1	5-6
318-3005	1:1:1.58	0.30	0.60	25	0.40 / 0.40	0.60	2	1-4 (2,3 sh.)
318-3006	1:1:2	0.80	0.60	25	0.40 / 0.40	0.60	2	1-4 (2,3 sh.)
318-3007	1:1:2.62	0.80	0.40	25	0.40 / 0.40	0.60	2	1-4 (2,3 sh.)
318-3008	1CT:2CT	1.25	0.55	25	0.65	1.20	4	1-5
318-3009	1:2CT	1.25	0.50	35	0.65	1.20	3	2-6
318-3010	1:2CT	2.00	0.50	35	0.65	1.40	3	2-6
318-3011	1:4CT	0.50	1.00	35	0.45	1.50	5	1-5
318-3012	1:1.14CT	1.25	0.80	30	0.65	0.80	5	1-5
318-3013	1:1.15CT	1.50	0.60	30	0.65	0.90	3	2-6
318-3014	1:1:1.27	1.50	0.40	30	0.65	0.90	3	2-6
318-3015	1CT:2CT	1.25	0.55	25	0.65	1.20	4	1-5
318-3016	1:2.3CT	1.25	0.80	30	0.65	1.20	5	1-5
318-3017	1:1.36CT	1.25	0.80	30	0.64	0.90	5	1-5
318-3018	1CT:1CT	1.25	0.80	30	0.75	0.80	4	1-5

### SCHEMATICS



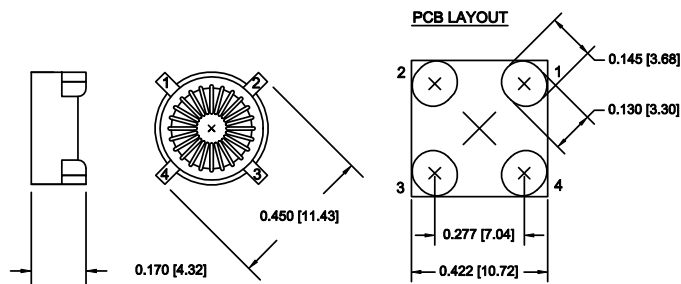
## Extended Temperature Range

Model number	Turns ratio P:S +/-5%	OCL@25C mH, Min *	L <sub>L</sub> uH Max	C <sub>w/w</sub> pF, Max	DCR Pri Ohm, Max	DCR Sec. Ohm, Max	Schematic	Primary pins
318-3020	1:1.36	1.25	0.80	30	0.85	1.25	1	5-6
318-3021	1:1.15CT	1.50	0.80	35	0.85	1.00	3	2-6
318-3022	1CT:2CT	1.25	0.60	40	1.00	2.00	4	2-6
318-3023	1CT:1CT	1.25	1.10	45	1.00	1.00	4	1-5

- Measured criteria: 0.1V / 10 KHz.

## Surface Mount Toroids

- 518 series utilizes an iron powder core; ideal for frequency applications up to 100 kHz.
- 618 series utilizes a Kool Mu<sup>®</sup> core; minimizing core losses and temperature rise at higher frequencies of 100-250 kHz.
- Tape and reel packaging.
- Listed are standard designs. Custom designs are available in this package.



### 518 Series Toroids With Iron Powder Cores and 01 Case Size

MODEL NUMBER	PARALLEL				SERIES				CIRCUIT DIAGRAM
	OPEN CIRCUIT INDUCTANCE +/-20% μH	MINIMUM FULL LOAD INDUCTANCE μH	FULL LOAD CURRENT A dc	MAXIMUM DC RESISTANCE Ohms	OPEN CIRCUIT INDUCTANCE +/-20% μH	MINIMUM FULL LOAD INDUCTANCE μH	FULL LOAD CURRENT A dc	MAXIMUM DC RESISTANCE Ohms	
518-R47M-01	0.42	0.35	5.50	0.006	1.68	1.40	2.75	0.024	
518-R68M-01	0.56	0.47	5.10	0.007	2.27	1.80	2.55	0.026	
518-1R0M-01	1.16	0.73	4.50	0.008	4.46	2.92	2.25	0.032	
518-2R0M-01	2.61	1.59	3.40	0.014	10.44	5.30	1.70	0.055	
518-5R0M-01	5.11	3.36	2.00	0.040	20.46	13.44	1.00	0.160	
518-8R0M-01	8.45	5.30	1.80	0.053	33.82	21.20	0.90	0.210	
518-100M-01	9.75	6.22	1.70	0.056	39.00	24.88	0.85	0.224	
518-150M-01	15.80	9.60	1.40	0.088	63.52	38.40	0.70	0.350	
518-200M-01	21.44	14.10	1.00	0.160	83.57	56.40	0.50	0.640	
518-250M-01	26.72	17.10	0.96	0.175	106.90	68.40	0.48	0.700	
518-330M-01	33.82	22.30	0.83	0.252	135.30	89.18	0.40	1.008	
518-500M-01	52.07	33.60	0.70	0.315	208.28	134.40	0.35	1.280	
518-680M-01	68.77	43.60	0.66	0.375	275.10	174.40	0.33	1.500	
518-101M-01	100.32	63.70	0.54	0.558	401.31	254.75	0.27	2.232	
518-151M-01	153.41	96.70	0.44	0.845	613.64	386.78	0.22	3.380	
518-201M-01	205.19	130.90	0.36	1.210	820.76	523.60	0.18	4.840	
518-301M-01	308.20	191.10	0.32	1.530	1232.80	760.40	0.16	6.120	

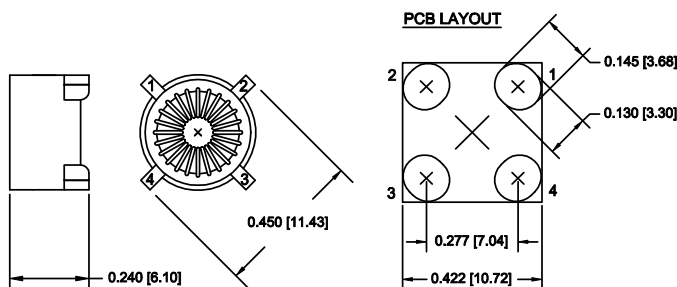
### 618 Series Toroids With Kool Mu<sup>®</sup> Cores and 01 Case Size

MODEL NUMBER	PARALLEL				SERIES				CIRCUIT DIAGRAM
	OPEN CIRCUIT INDUCTANCE +/-20% μH	MINIMUM FULL LOAD INDUCTANCE μH	FULL LOAD CURRENT A dc	MAXIMUM DC RESISTANCE Ohms	OPEN CIRCUIT INDUCTANCE +/-20% μH	MINIMUM FULL LOAD INDUCTANCE μH	FULL LOAD CURRENT A dc	MAXIMUM DC RESISTANCE Ohms	
618-R47M-01	0.40	0.26	5.50	0.005	1.60	1.06	2.75	0.019	SAME AS ABOVE
618-R68M-01	0.63	0.40	4.50	0.006	2.50	1.60	2.25	0.024	
618-1R0M-01	0.90	0.57	4.20	0.007	3.60	2.24	2.10	0.028	
618-2R0M-01	2.00	1.00	4.10	0.011	8.00	4.00	2.05	0.042	
618-5R0M-01	4.90	2.65	2.30	0.030	19.60	10.60	1.15	0.120	
618-8R0M-01	8.10	4.10	2.00	0.040	32.40	16.40	1.00	0.160	
618-100M-01	10.00	4.85	1.90	0.045	40.00	19.39	0.95	0.178	
618-150M-01	16.63	9.40	1.10	0.082	62.52	37.60	0.55	0.322	
618-200M-01	19.60	11.52	1.00	0.145	78.40	46.08	0.50	0.580	
618-250M-01	25.60	16.35	0.74	0.165	102.40	65.40	0.37	0.660	
618-330M-01	32.40	19.85	0.72	0.292	129.60	79.40	0.36	1.168	
618-500M-01	50.63	29.35	0.64	0.365	202.52	117.36	0.32	1.460	
618-680M-01	67.60	39.72	0.54	0.515	270.40	158.87	0.27	2.060	
618-101M-01	99.23	58.70	0.44	0.782	396.92	234.80	0.22	3.128	
618-151M-01	152.10	87.30	0.38	0.965	608.40	349.20	0.19	3.860	
618-201M-01	202.50	107.35	0.37	1.140	810.00	430.60	0.19	4.560	
618-301M-01	302.50	191.40	0.22	1.430	1210.00	765.60	0.11	5.720	

Kool Mu<sup>®</sup> is a registered trade mark of Magnetics, Inc.

## Surface Mount Toroids

- 518 series utilizes an iron powder core; ideal for frequency applications up to 100 kHz.
- 618 series utilizes a Kool Mu<sup>®</sup> core; minimizing core losses and temperature rise at higher frequencies of 100-250 kHz.
- Tape and reel packaging.
- Listed are standard designs. Custom designs are available in this package.



### 518 Series Toroids With Iron Powder Cores and 02 Case Size

MODEL NUMBER	PARALLEL				SERIES				CIRCUIT DIAGRAM
	OPEN CIRCUIT INDUCTANCE +/-20% $\mu$ H	MINIMUM FULL LOAD INDUCTANCE $\mu$ H	FULL LOAD CURRENT A dc	MAXIMUM DC RESISTANCE Ohms	OPEN CIRCUIT INDUCTANCE +/-20% $\mu$ H	MINIMUM FULL LOAD INDUCTANCE $\mu$ H	FULL LOAD CURRENT A dc	MAXIMUM DC RESISTANCE Ohms	
518-R47M-02	0.57	0.73	5.90	0.006	2.26	1.70	2.95	0.024	
518-R68M-02	0.83	0.63	5.40	0.008	3.34	2.52	2.70	0.030	
518-1R0M-02	1.13	0.85	5.00	0.009	4.52	3.40	2.50	0.035	
518-2R0M-02	2.30	1.60	3.90	0.013	9.18	6.38	1.95	0.055	
518-5R0M-02	5.18	3.75	2.50	0.030	20.72	14.80	1.25	0.126	
518-8R0M-02	8.30	5.70	2.30	0.040	33.20	22.60	1.15	0.160	
518-100M-02	10.14	6.90	2.10	0.460	40.55	27.50	1.05	0.181	
518-150M-02	15.50	10.80	1.60	0.082	62.00	43.20	0.80	0.330	
518-200M-02	20.70	13.45	1.50	0.095	82.60	53.60	0.75	0.380	
518-250M-02	25.05	16.70	1.40	0.108	100.20	66.70	0.70	0.434	
518-330M-02	33.21	21.50	1.30	0.125	132.80	85.80	0.65	0.500	
518-500M-02	50.81	36.40	0.82	0.305	203.25	145.50	0.41	1.220	
518-680M-02	67.07	46.70	0.76	0.362	268.28	186.70	0.38	1.448	
518-101M-02	100.18	70.00	0.62	0.540	400.72	280.00	0.31	2.160	
518-151M-02	150.90	101.80	0.56	0.666	603.60	407.00	0.28	2.660	
518-201M-02	203.20	139.00	0.46	0.950	812.80	555.50	0.23	3.800	
518-301M-02	304.17	199.70	0.42	1.175	1216.65	798.50	0.21	4.702	

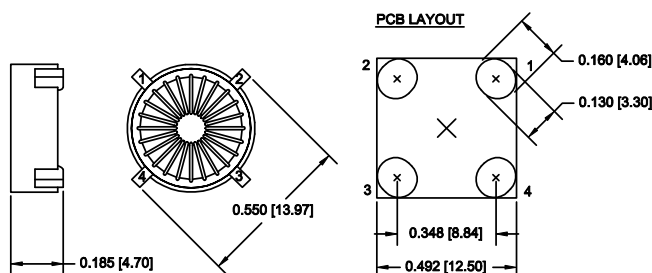
### 618 Series Toroids With Kool Mu<sup>®</sup> Cores and 02 Case Size

MODEL NUMBER	PARALLEL				SERIES				CIRCUIT DIAGRAM
	OPEN CIRCUIT INDUCTANCE +/-20% $\mu$ H	MINIMUM FULL LOAD INDUCTANCE $\mu$ H	FULL LOAD CURRENT A dc	MAXIMUM DC RESISTANCE Ohms	OPEN CIRCUIT INDUCTANCE +/-20% $\mu$ H	MINIMUM FULL LOAD INDUCTANCE $\mu$ H	FULL LOAD CURRENT A dc	MAXIMUM DC RESISTANCE Ohms	
618-R47M-02	0.45	0.30	6.50	0.005	1.80	1.18	3.25	0.019	SAME AS ABOVE
618-R68M-02	0.80	0.52	5.50	0.006	3.20	2.07	2.75	0.024	
618-1R0M-02	1.25	0.80	4.60	0.008	5.00	3.10	2.30	0.030	
618-2R0M-02	2.45	1.30	4.50	0.010	9.80	5.20	2.25	0.038	
618-5R0M-02	5.00	2.80	3.00	0.021	20.00	11.20	1.50	0.084	
618-8R0M-02	8.45	4.40	2.60	0.027	33.80	17.60	1.30	0.107	
618-100M-02	9.80	4.90	2.50	0.030	39.20	19.60	1.25	0.120	
618-150M-02	14.45	8.10	1.70	0.058	57.80	32.40	0.85	0.238	
618-200M-02	20.00	11.94	1.30	0.106	80.00	47.80	0.65	0.424	
618-250M-02	24.20	15.65	1.00	0.116	96.80	62.60	0.50	0.464	
618-330M-02	31.25	14.84	1.40	0.107	125.00	59.36	0.70	0.428	
618-500M-02	51.20	28.80	0.92	0.212	204.80	115.20	0.46	0.848	
618-680M-02	68.45	39.00	0.78	0.302	273.80	156.00	0.39	1.208	
618-101M-02	101.25	58.40	0.63	0.460	405.00	233.60	0.32	1.840	
618-151M-02	151.25	95.90	0.43	0.560	605.00	383.60	0.22	2.240	
618-201M-02	198.45	122.85	0.39	0.795	793.80	491.40	0.20	3.180	
618-301M-02	304.20	170.90	0.38	1.225	1216.8	683.60	0.19	4.900	

Kool Mu<sup>®</sup> is a registered trade mark of Magnetics, Inc.

## Surface Mount Toroids

- 518 series utilizes an iron powder core; ideal for frequency applications up to 100 kHz.
- 618 series utilizes a Kool Mu<sup>®</sup> core; minimizing core losses and temperature rise at higher frequencies of 100-250 kHz.
- Tape and reel packaging.
- Listed are standard designs. Custom designs are available in this package.



### 518 Series Toroids With Iron Powder Cores and 03 Case Size

MODEL NUMBER	PARALLEL				SERIES				CIRCUIT DIAGRAM
	OPEN CIRCUIT INDUCTANCE +/-20% $\mu$ H	MINIMUM FULL LOAD INDUCTANCE $\mu$ H	FULL LOAD CURRENT A dc	MAXIMUM DC RESISTANCE Ohms	OPEN CIRCUIT INDUCTANCE +/-20% $\mu$ H	MINIMUM FULL LOAD INDUCTANCE $\mu$ H	FULL LOAD CURRENT A dc	MAXIMUM DC RESISTANCE Ohms	
518-R47M-03	0.54	0.37	6.20	0.007	2.19	1.48	3.10	0.024	
518-R68M-03	0.71	0.49	4.70	0.008	2.86	1.98	2.85	0.028	
518-1R0M-03	1.12	0.71	5.40	0.009	4.48	2.85	2.70	0.034	
518-2R0M-03	1.89	1.23	4.60	0.012	7.57	4.92	2.30	0.044	
518-5R0M-03	5.42	3.18	3.20	0.023	21.60	12.70	1.60	0.090	
518-8R0M-03	8.70	4.90	2.80	0.031	34.80	19.60	1.40	0.120	
518-100M-03	10.76	5.80	2.70	0.033	43.00	23.20	1.35	0.132	
518-150M-03	16.17	8.72	2.20	0.050	64.68	34.80	1.10	0.198	
518-200M-03	20.70	13.24	1.50	0.111	82.80	52.95	0.75	0.442	
518-250M-03	26.82	16.10	1.40	0.125	107.50	64.60	0.70	0.498	
518-330M-03	35.12	20.30	1.30	0.143	140.49	81.22	0.65	0.570	
518-500M-03	51.78	33.10	0.92	0.277	207.10	132.40	0.46	1.108	
518-680M-03	73.48	44.08	0.84	0.328	293.93	176.32	0.42	1.314	
518-101M-03	109.77	65.86	0.68	0.502	439.08	263.45	0.32	2.005	
518-151M-03	158.60	90.66	0.64	0.624	634.40	363.52	0.32	2.486	
518-201M-03	216.39	116.80	0.60	0.735	865.50	467.20	0.30	2.930	
518-301M-03	319.80	172.70	0.50	1.200	1276.00	690.80	0.25	4.850	

### 618 Series Toroids With Kool Mu<sup>®</sup> Cores and 03 Case Size

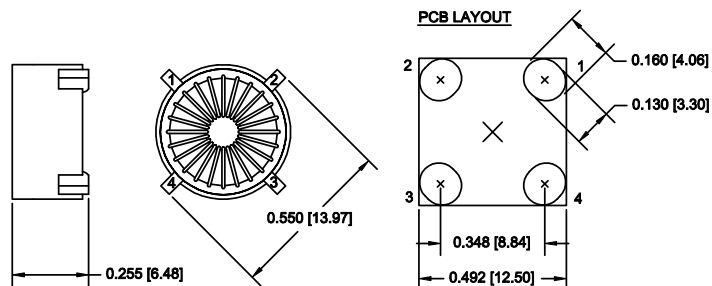
MODEL NUMBER	PARALLEL				SERIES				CIRCUIT DIAGRAM
	OPEN CIRCUIT INDUCTANCE +/-20% $\mu$ H	MINIMUM FULL LOAD INDUCTANCE $\mu$ H	FULL LOAD CURRENT A dc	MAXIMUM DC RESISTANCE Ohms	OPEN CIRCUIT INDUCTANCE +/-20% $\mu$ H	MINIMUM FULL LOAD INDUCTANCE $\mu$ H	FULL LOAD CURRENT A dc	MAXIMUM DC RESISTANCE Ohms	
618-R47M-03	0.40	0.28	6.00	0.006	1.60	1.12	3.00	0.21	SAME AS ABOVE
618-R68M-03	0.63	0.43	5.00	0.006	2.50	1.72	2.50	0.024	
618-1R0M-03	0.90	0.58	4.80	0.007	3.60	2.32	2.40	0.028	
618-2R0M-03	2.00	1.08	4.70	0.010	8.00	4.32	2.35	0.040	
618-5R0M-03	4.90	2.60	3.00	0.020	19.60	10.40	1.50	0.078	
618-8R0M-03	8.10	3.89	2.80	0.025	32.40	15.55	1.40	0.100	
618-100M-03	10.00	4.55	2.70	0.029	40.00	18.20	1.35	0.114	
618-150M-03	15.63	7.50	2.00	0.043	62.50	30.00	1.00	0.172	
618-200M-03	19.60	10.45	1.50	0.077	78.40	41.80	0.75	0.310	
618-250M-03	25.60	16.28	0.98	0.086	102.40	65.12	0.49	0.344	
618-330M-03	32.40	19.41	0.96	0.083	129.60	77.64	0.48	0.332	
618-500M-03	50.63	27.09	0.94	0.241	202.52	108.36	0.47	0.960	
618-680M-03	67.60	36.62	0.80	0.275	270.40	146.48	0.40	1.100	
618-101M-03	99.23	51.36	0.70	0.348	396.92	205.44	0.35	1.392	
618-151M-03	152.10	98.66	0.38	0.430	608.40	394.64	0.19	1.720	
618-201M-03	202.50	121.43	0.39	0.620	810.00	485.70	0.20	2.480	
618-301M-03	302.50	158.19	0.40	0.950	1210.00	632.70	0.20	3.800	

Kool Mu<sup>®</sup> is a registered trade mark of Magnetics, Inc.



## Surface Mount Toroids

- 518 series utilizes an iron powder core; ideal for frequency applications up to 100 kHz.
- 618 series utilizes a Kool Mu<sup>®</sup> core; minimizing core losses and temperature rise at higher frequencies of 100-250 kHz.
- Tape and reel packaging.
- Listed are standard designs. Custom designs are available in this package.



### 518 Series Toroids With Iron Powder Cores and 04 Case Size

MODEL NUMBER	PARALLEL				SERIES				CIRCUIT DIAGRAM
	OPEN CIRCUIT INDUCTANCE +/-20% μH	MINIMUM FULL LOAD INDUCTANCE μH	FULL LOAD CURRENT A dc	MAXIMUM DC RESISTANCE Ohms	OPEN CIRCUIT INDUCTANCE +/-20% μH	MINIMUM FULL LOAD INDUCTANCE μH	FULL LOAD CURRENT A dc	MAXIMUM DC RESISTANCE Ohms	
518-R47M-04	0.49	0.38	7.90	0.005	1.96	1.50	3.95	0.019	
518-R68M-04	0.76	0.56	7.20	0.006	3.04	2.24	3.60	0.024	
518-1R0M-04	1.09	0.82	5.90	0.009	4.36	3.26	3.00	0.035	
518-2R0M-04	1.95	1.42	4.60	0.015	7.80	5.68	2.30	0.056	
518-5R0M-04	5.15	3.55	3.30	0.028	20.60	14.20	1.65	0.110	
518-8R0M-04	7.81	5.15	3.00	0.032	31.22	20.60	1.50	0.128	
518-100M-04	9.88	6.68	2.50	0.045	39.52	26.72	1.25	0.180	
518-150M-04	14.76	9.50	2.30	0.055	59.04	38.00	1.15	0.225	
518-200M-04	20.62	13.45	1.90	0.085	82.48	53.80	0.95	0.338	
518-250M-04	26.65	17.18	1.60	0.115	102.60	68.72	0.80	0.460	
518-330M-04	33.21	22.92	1.30	0.165	132.84	91.68	0.65	0.660	
518-500M-04	48.80	32.20	1.20	0.200	195.20	128.80	0.60	0.802	
518-680M-04	67.37	43.05	1.10	0.235	269.48	172.18	0.55	0.950	
518-101M-04	99.09	69.55	0.72	0.567	396.36	278.20	0.36	2.261	
518-151M-04	149.45	101.46	0.64	0.695	597.80	405.80	0.32	2.785	
518-201M-04	200.11	131.36	0.60	0.810	800.45	525.45	0.30	3.240	
518-301M-04	298.93	188.05	0.54	1.005	1195.70	752.15	0.27	4.020	

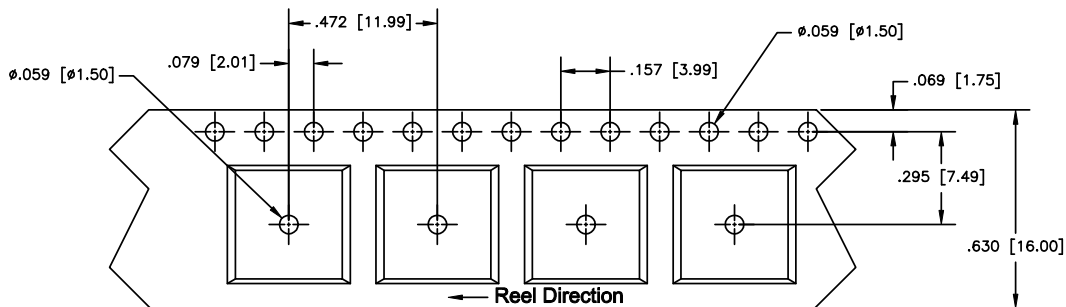
### 618 Series Toroids With Kool Mu<sup>®</sup> Cores and 04 Case Size

MODEL NUMBER	PARALLEL				SERIES				CIRCUIT DIAGRAM
	OPEN CIRCUIT INDUCTANCE +/-20% μH	MINIMUM FULL LOAD INDUCTANCE μH	FULL LOAD CURRENT A dc	MAXIMUM DC RESISTANCE Ohms	OPEN CIRCUIT INDUCTANCE +/-20% μH	MINIMUM FULL LOAD INDUCTANCE μH	FULL LOAD CURRENT A dc	MAXIMUM DC RESISTANCE Ohms	
618-R47M-04	0.46	0.33	7.00	0.003	1.84	1.32	3.50	0.012	SAME AS ABOVE
618-R68M-04	0.83	0.58	6.00	0.004	3.32	2.32	3.00	0.018	
618-1R0M-04	1.30	0.89	5.00	0.005	5.20	3.56	2.50	0.020	
618-2R0M-04	1.87	1.13	5.90	0.006	7.48	4.52	2.92	0.025	
618-5R0M-04	5.20	2.70	4.40	0.013	20.80	10.80	2.20	0.052	
618-8R0M-04	7.48	3.89	3.50	0.017	29.92	15.56	1.75	0.070	
618-100M-04	10.19	5.11	3.40	0.020	40.76	20.40	1.70	0.080	
618-150M-04	15.02	7.00	3.00	0.024	60.08	28.00	1.50	0.096	
618-200M-04	20.80	11.00	2.10	0.055	83.20	44.00	1.05	0.220	
618-250M-04	25.16	13.00	2.00	0.064	100.64	52.00	1.00	0.254	
618-330M-04	32.50	16.51	1.80	0.070	130.00	66.04	0.90	0.272	
618-500M-04	49.97	25.00	1.50	0.110	199.88	100.00	0.75	0.440	
618-680M-04	67.30	35.40	1.20	0.156	269.20	141.60	0.60	0.624	
618-101M-04	100.60	55.31	0.92	0.294	402.40	221.24	0.46	1.173	
618-151M-04	148.80	77.40	0.82	0.373	595.20	309.60	0.41	1.492	
618-201M-04	199.80	110.58	0.64	0.550	799.20	442.30	0.32	2.175	
618-301M-04	300.30	149.00	0.62	0.672	1201.20	596.00	0.31	2.688	

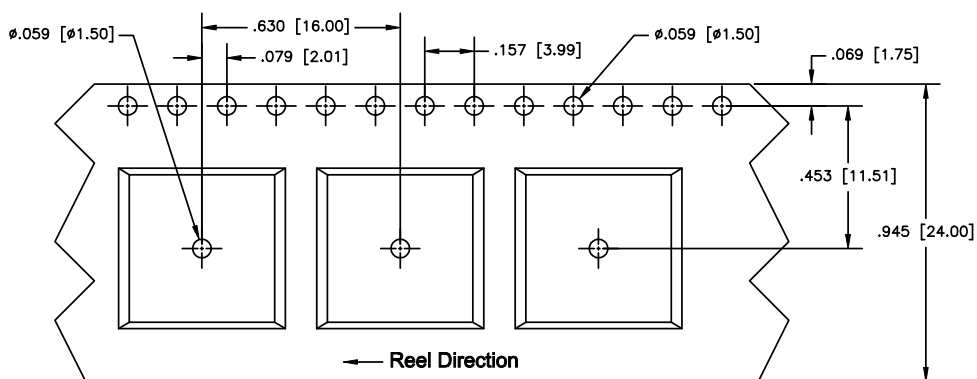
Kool Mu<sup>®</sup> is a registered trade mark of Magnetics, Inc.

# Surface Mount Toroids

## TAPE AND REEL PACKAGING



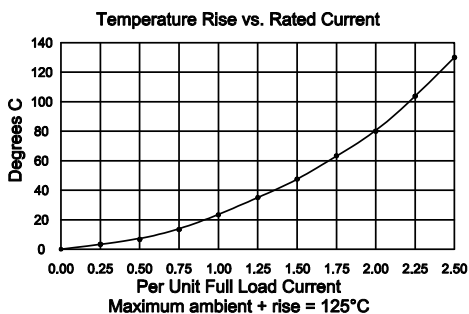
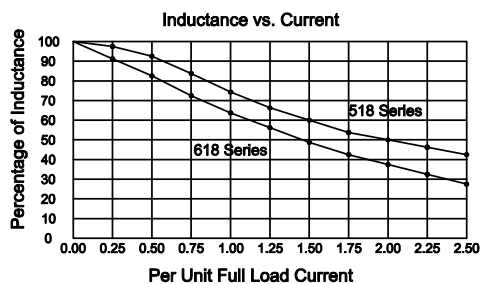
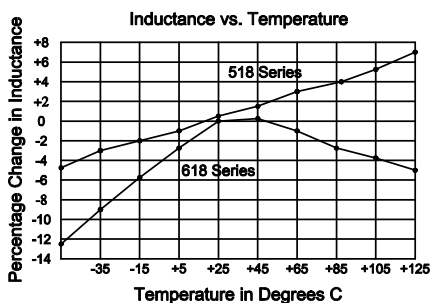
01 CASE SIZE: 1100 toroids per reel.



02 & 03 CASE SIZE: 800 toroids per reel.  
04 CASE SIZE: 600 toroids per reel.

## PERFORMANCE GRAPHS

NOTE: All of our surface mount toroids are manufactured to exacting specifications and meet UL Class B 130°C requirements.

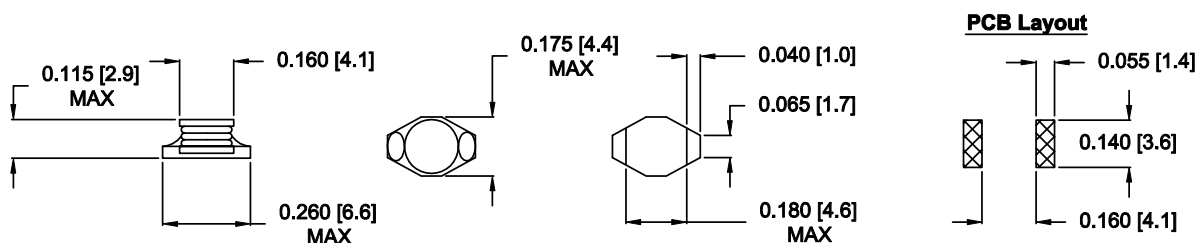


# Surface Mount Power Inductors

## 523 SERIES SURFACE MOUNT POWER INDUCTORS

## 1608 Size

- Ferrite Bobbin/Drum core.
- High Current capacity.
- Compact dimensions.
- Very stable inductance over current range.
- Ideal for Reflow Soldering.
- Tape and reel standard packaging.\*
- Low resistance and high energy storage.



PART NUMBER	INDUCTANCE ( $\mu$ H) +/-20%	RATED CURRENT (A)	DCR ( $\Omega$ ) max.	SRF (MHz) typ.
523-1608-1R0M	1.0	2.90	0.050	130.0
523-1628-1R5M	1.5	2.80	0.050	115.0
523-1608-2R2M	2.2	2.40	0.070	90.0
523-1608-3R3M	3.3	2.00	0.080	70.0
523-1608-4R7M	4.7	1.50	0.090	50.0
523-1608-6R8M	6.8	1.40	0.130	45.0
523-1608-100M	10.0	1.10	0.160	35.0
523-1608-150M	15.0	1.20	0.230	30.0
523-1608-220M	22.0	0.80	0.370	20.0
523-1608-330M	33.0	0.60	0.510	15.0
523-1608-470M	47.0	0.50	0.640	14.0
523-1608-680M	68.0	0.40	0.860	11.0
523-1608-101M	100.0	0.30	1.270	9.0
523-1608-151M	150.0	0.25	2.000	6.0
523-1608-221M	220.0	0.20	3.110	5.5
523-1608-331M	330.0	0.16	3.800	5.0
523-1608-471M	470.0	0.15	5.060	4.0
523-1608-681M	680.0	0.12	9.200	3.0
523-1608-102M	1000.0	0.07	13.80	2.0

- Notes: 1. Inductance is tested at 100KHz using an HP4284A LCR meter.  
 2. DCR is measured using an HP4338A Milliohm meter.  
 3. SRF is measured using an HP3577A Network analyzer.

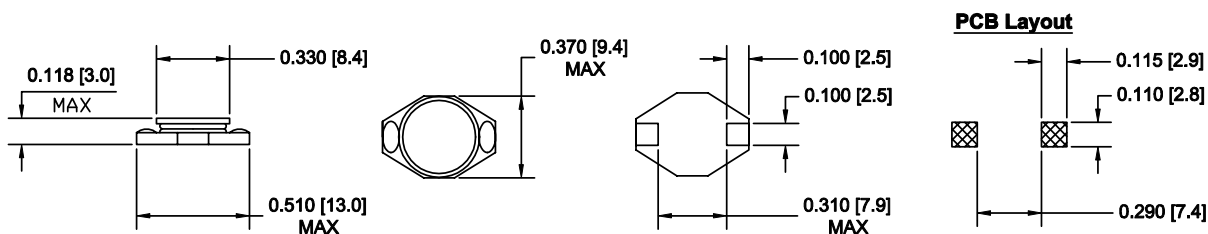
\* Reel contains 2500 pcs on a 13" reel.

## Surface Mount Power Inductors

### 523 SERIES SURFACE MOUNT POWER INDUCTORS

### 3308 Size

- Ferrite Bobbin/Drum core.
- Compact dimensions.
- Very stable inductance over current range.
- Ideal for Reflow Soldering.
- Tape and reel standard packaging.\*



PART NUMBER	INDUCTANCE ( $\mu$ H) +/-20%	RATED CURRENT (A)	DCR ( $\Omega$ ) max.	SRF (MHz) typ.
523-3308-100M	10	2.00	0.11	35.0
523-3308-150M	15	1.50	0.15	33.0
523-3308-220M	22	1.30	0.23	25.0
523-3308-330M	33	1.10	0.30	19.0
523-3308-470M	47	0.80	0.39	14.0
523-3308-680M	68	0.70	0.66	12.0
523-3308-101M	100	0.60	0.84	10.0
523-3308-151M	150	0.50	1.20	8.0
523-3308-221M	220	0.40	1.90	6.0
523-3308-331M	330	0.30	2.70	5.0
523-3308-471M	470	0.20	4.00	4.0
523-3308-681M	680	0.10	5.30	3.0
523-3308-102M	1000	0.05	8.40	2.5

- Notes: 1. Inductance is tested at 100KHz using an HP4284A LCR meter.  
 2. DCR is measured using an HP4338A Milliohm meter.  
 3. SRF is measured using an HP3577A Network analyzer.

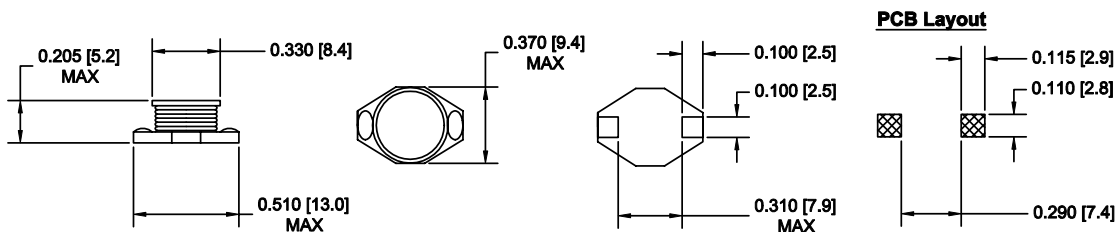
\* Reel contains 1000 pcs on a 13" reel.

## Surface Mount Power Inductors

### 523 SERIES SURFACE MOUNT POWER INDUCTORS

### 3316 Size

- Ferrite Bobbin/Drum core.
- High Current capacity.
- Compact dimensions.
- Very stable inductance over current range.
- Ideal for Reflow Soldering.
- Tape and reel standard packaging.\*
- Low resistance and high energy storage.



PART NUMBER	INDUCTANCE ( $\mu$ H) +/-20%	RATED CURRENT (A)	DCR ( $\Omega$ ) max.	SRF (MHz) typ.
523-3316-1R0M	1.0	6.8	0.009	100.0
523-3316-1R5M	1.5	6.4	0.010	90.0
523-3316-2R2M	2.2	6.1	0.012	80.0
523-3316-3R3M	3.3	5.4	0.015	65.0
523-3316-4R7M	4.7	4.8	0.018	45.0
523-3316-6R8M	6.8	4.4	0.027	38.0
523-3316-100M	10.0	3.9	0.038	30.0
523-3316-150M	15.0	3.1	0.046	27.0
523-3316-220M	22.0	2.7	0.085	19.0
523-3316-330M	33.0	2.1	0.100	15.0
523-3316-470M	47.0	1.8	0.140	12.0
523-3316-680M	68.0	1.5	0.200	10.0
523-3316-101M	100.0	1.3	0.280	9.0
523-3316-151M	150.0	1.0	0.400	6.0
523-3316-221M	220.0	0.8	0.610	5.0
523-3316-331M	330.0	0.6	1.020	4.5
523-3316-471M	470.0	0.5	1.270	3.5
523-3316-681M	680.0	0.4	2.020	2.5
523-3316-102M	1000.0	0.3	3.000	2.0

- Notes: 1. Inductance is tested at 100KHz using an HP4284A LCR meter.  
 2. DCR is measured using an HP4338A Milliohm meter.  
 3. SRF is measured using an HP3577A Network analyzer.

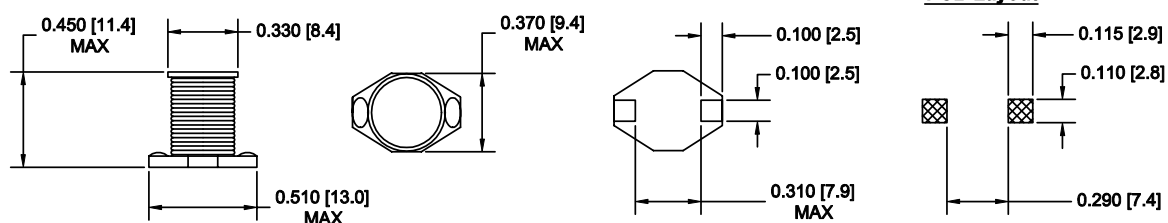
\* Reel contains 1000 pcs on a 13" reel.

## Surface Mount Power Inductors

### 523 SERIES SURFACE MOUNT POWER INDUCTORS

### 3340 Size

- Ferrite Bobbin/Drum core.
- High Current capacity.
- Compact dimensions.
- Very stable inductance over current range.
- Ideal for Reflow Soldering.
- Tape and reel standard packaging.\*
- Low resistance and high energy storage.



PART NUMBER	INDUCTANCE ( $\mu$ H) +/-20%	RATED CURRENT (A)	DCR ( $\Omega$ ) max.	SRF (MHz) typ.
523-3340-100M	10	3.5	0.040	22.0
523-3340-150M	15	3.0	0.050	18.0
523-3340-220M	22	2.5	0.066	11.0
523-3340-330M	33	2.0	0.080	9.0
523-3340-470M	47	1.6	0.110	8.0
523-3340-680M	68	1.2	0.170	7.0
523-3340-101M	100	1.2	0.220	5.0
523-3340-151M	150	0.9	0.340	4.0
523-3340-221M	220	0.7	0.440	3.5
523-3340-331M	330	0.6	0.700	2.5
523-3340-471M	470	0.3	0.950	2.0
523-3340-681M	680	0.2	1.200	2.0
523-3340-102M	1000	0.1	2.000	1.5

- Notes: 1. Inductance is tested at 100KHz using an HP4284A LCR meter.  
 2. DCR is measured using an HP4338A Milliohm meter  
 3. SRF is measured using an HP3577A Network analyzer

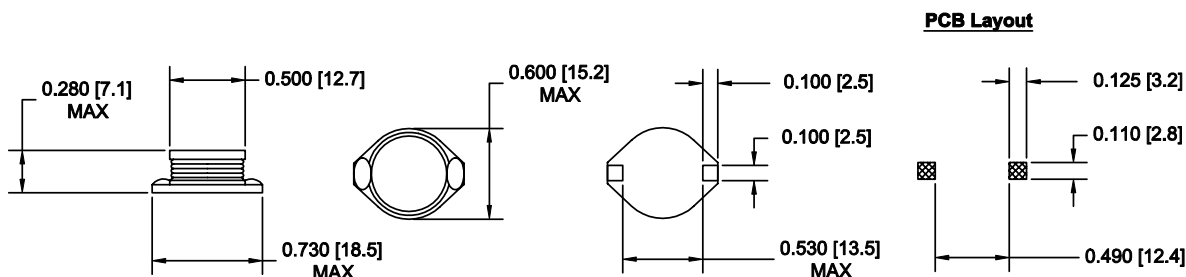
- Reel contains 225 pcs on a 13" reel.

## Surface Mount Power Inductors

### 523 SERIES SURFACE MOUNT POWER INDUCTORS

### 5022 Size

- Ferrite Bobbin/Drum core.
- High Current capacity.
- Compact dimensions.
- Very stable inductance over current range.
- Ideal for Reflow Soldering.
- Tape and reel standard packaging.\*
- Low resistance and high energy storage.



PART NUMBER	INDUCTANCE ( $\mu$ H) +/-20%	RATED CURRENT (A)	DCR ( $\Omega$ ) max.	SRF (MHz) typ.
523-5022-1R0M	1.0	8.60	0.009	80.0
523-5022-2R2M	2.2	7.10	0.014	80.0
523-5022-3R3M	3.3	6.20	0.018	60.0
523-5022-5R6M	5.6	5.30	0.020	40.0
523-5022-100M	10.0	4.30	0.031	30.0
523-5022-150M	15.0	4.00	0.036	22.0
523-5022-220M	22.0	3.50	0.047	20.0
523-5022-330M	33.0	3.00	0.066	15.0
523-5022-470M	47.0	2.60	0.086	9.0
523-5022-680M	68.0	2.30	0.130	8.0
523-5022-101M	100.0	1.80	0.190	7.0
523-5022-151M	150.0	1.50	0.250	6.0
523-5022-221M	220.0	1.20	0.380	5.0
523-5022-331M	330.0	1.00	0.560	4.0
523-5022-471M	470.0	0.82	0.850	3.0
523-5022-681M	680.0	0.72	1.100	2.5
523-5022-102M	1000.0	0.56	1.800	2.0

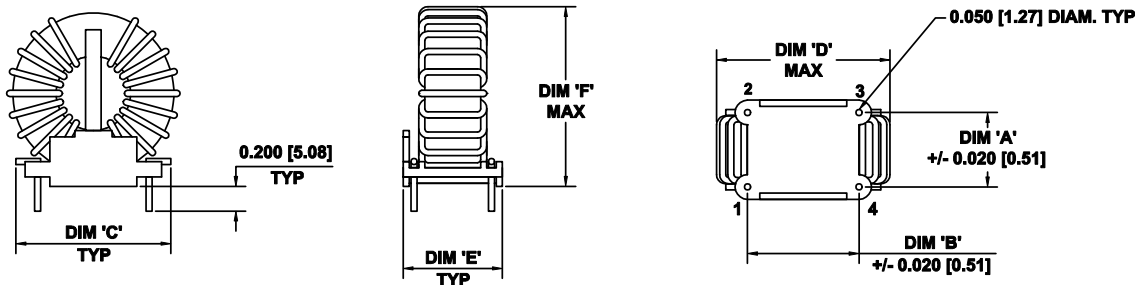
- Notes: 1. Inductance is tested at 100KHz using an HP4284A LCR meter.  
 2. DCR is measured using an HP4338A Milliohm meter  
 3. SRF is measured using an HP3577A Network analyzer

\* Reel contains 250 pcs on a 13" reel.

# Common Mode Chokes

- Dielectric strength: 1250 Vrms.
- Built to meet UL Class B (130°C) insulation system.

- 1 Amp to 15 Amps.
- 0.3 to 125 mH.
- Windings Balanced within 1%.

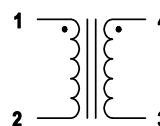


PACKAGE 1											
MODEL NUMBER	RATED CURRENT (Arms)	INDUCTANCE L (mH)	TYPICAL LEAKAGE INDUCTANCE (μH)	TYPICAL IWC (pF)	MAXIMUM DCR @ 25 C (Ohm)	MODEL NUMBER	RATED CURRENT (Arms)	INDUCTANCE L (mH)	TYPICAL LEAKAGE INDUCTANCE (μH)	TYPICAL IWC (pF)	MAXIMUM DCR @ 25 C (Ohm)
CMC-2001	1.0	5.0	57	20	0.250	CMC-2012	6.0	3.0	18	19	0.030
CMC-2002	1.0	8.0	49	21	0.200	CMC-2013	9.0	0.6	8	11	0.010
CMC-2003	1.0	15.0	82	28	0.285	CMC-2014	9.0	1.1	8	14	0.011
CMC-2004	2.0	2.5	29	16	0.090	CMC-2015	9.0	1.9	12	15	0.016
CMC-2005	2.0	4.0	28	17	0.080	CMC-2016	12.0	0.5	6	10	0.008
CMC-2006	2.0	7.5	42	20	0.100	CMC-2017	12.0	0.8	6	12	0.007
CMC-2007	4.0	1.3	15	14	0.035	CMC-2018	12.0	1.4	10	15	0.012
CMC-2008	4.0	2.1	14	15	0.031	CMC-2019	15.0	0.3	5	9	0.006
CMC-2009	4.0	3.7	18	19	0.037	CMC-2020	15.0	0.6	4	10	0.005
CMC-2010	6.0	1.0	12	13	0.026	CMC-2021	15.0	1.1	7	11	0.010
CMC-2011	6.0	1.7	10	90	0.020						

PACKAGE 2											
MODEL NUMBER	RATED CURRENT (Arms)	INDUCTANCE L (mH)	TYPICAL LEAKAGE INDUCTANCE (μH)	TYPICAL IWC (pF)	MAXIMUM DCR @ 25 C (Ohm)	MODEL NUMBER	RATED CURRENT (Arms)	INDUCTANCE L (mH)	TYPICAL LEAKAGE INDUCTANCE (μH)	TYPICAL IWC (pF)	MAXIMUM DCR @ 25 C (Ohm)
CMC-2101	1.0	7.5	70	22	0.300	CMC-2108	6.0	2.6	27	20	0.040
CMC-2102	1.0	13.0	125	30	0.400	CMC-2109	9.0	0.9	8	14	0.016
CMC-2103	2.0	3.8	30	16	0.100	CMC-2110	9.0	1.5	15	16	0.020
CMC-2104	2.0	6.5	62	29	0.140	CMC-2111	12.0	0.7	7	13	0.012
CMC-2105	4.0	1.9	17	14	0.042	CMC-2112	12.0	1.2	12	17	0.016
CMC-2106	4.0	3.3	30	17	0.052	CMC-2113	15.0	0.5	6	12	0.008
CMC-2107	6.0	1.5	14	16	0.030	CMC-2114	15.0	0.8	8	18	0.009

PACKAGE	DIMENSIONS					
	A	B	C	D	E	F
1	0.40	0.80	1.35	1.20	0.600	1.250
2	0.60	0.90	1.45	1.10	0.800	1.150

### SCHEMATIC



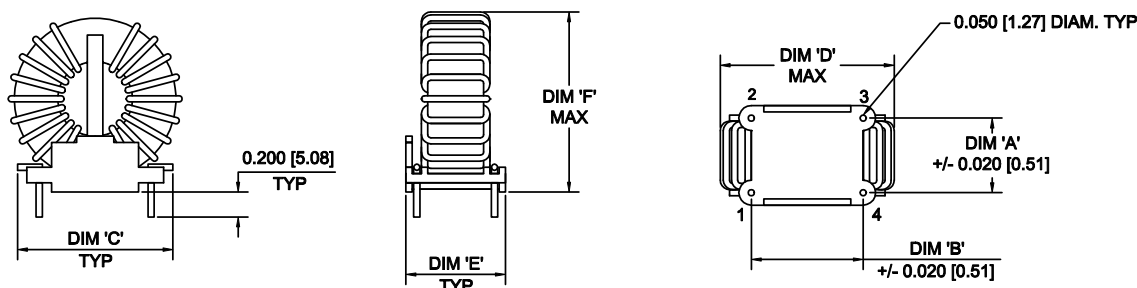
- Measured criteria: 10mV / 10 KHz.



## Common Mode Chokes

- Dielectric strength: 1250 Vrms.
- Built to meet UL Class B (130°C) insulation system.

- 1 Amp to 15 Amps.
- 0.3 to 125 mH.
- Windings Balanced within 1%.



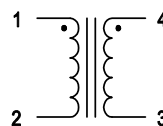
PACKAGE 3											
MODEL NUMBER	RATED CURRENT (Amps)	INDUCTANCE L (mH)	TYPICAL LEAKAGE INDUCTANCE (μH)	TYPICAL IWC (pF)	MAXIMUM DCR @ 25 C (Ohm)	MODEL NUMBER	RATED CURRENT (Amps)	INDUCTANCE L (mH)	TYPICAL LEAKAGE INDUCTANCE (μH)	TYPICAL IWC (pF)	MAXIMUM DCR @ 25 C (Ohm)
CMC-2201	1.0	32.0	292	58	0.712	CMC-2208	6.0	11.5	97	47	0.100
CMC-2202	1.0	56.0	505	99	0.980	CMC-2209	9.0	4.0	30	29	0.020
CMC-2203	2.0	16.0	140	47	0.270	CMC-2210	9.0	7.0	64	41	0.052
CMC-2204	2.0	28.0	280	8	0.370	CMC-2211	12.0	3.0	22	27	0.009
CMC-2205	4.0	8.0	66	40	0.085	CMC-2212	12.0	5.2	51	31	0.032
CMC-2206	4.0	14.0	130	51	0.130	CMC-2213	15.0	2.5	18	23	0.004
CMC-2207	6.0	6.6	52	37	0.060	CMC-2214	15.0	4.4	36	30	0.027

PACKAGE 4											
MODEL NUMBER	RATED CURRENT (Amps)	INDUCTANCE L (mH)	TYPICAL LEAKAGE INDUCTANCE (μH)	TYPICAL IWC (pF)	MAXIMUM DCR @ 25 C (Ohm)	MODEL NUMBER	RATED CURRENT (Amps)	INDUCTANCE L (mH)	TYPICAL LEAKAGE INDUCTANCE (μH)	TYPICAL IWC (pF)	MAXIMUM DCR @ 25 C (Ohm)
CMC-2301	1.0	72.0	900	325	1.280	CMC-2308	6.0	26.0	165	77	0.116
CMC-2302	1.0	125.0	800	122	1.145	CMC-2309	9.0	10.0	117	86	0.062
CMC-2303	2.0	36.0	450	123	0.447	CMC-2310	9.0	17.0	105	70	0.055
CMC-2304	2.0	62.0	400	101	0.412	CMC-2311	12.0	7.5	87	73	0.042
CMC-2305	4.0	19.0	290	89	0.265	CMC-2312	12.0	13.0	85	65	0.037
CMC-2306	4.0	32.0	180	87	0.122	CMC-2313	15.0	6.0	70	71	0.031
CMC-2307	6.0	15.0	188	89	0.118	CMC-2314	15.0	10.0	64	59	0.027

PACKAGE	DIMENSIONS					
	A	B	C	D	E	F
3	0.70	1.20	1.75	1.35	0.900	1.760
4	0.90	1.50	2.05	2.10	1.100	2.280

- Measured criteria: 10mV / 10 KHz.

### SCHEMATIC

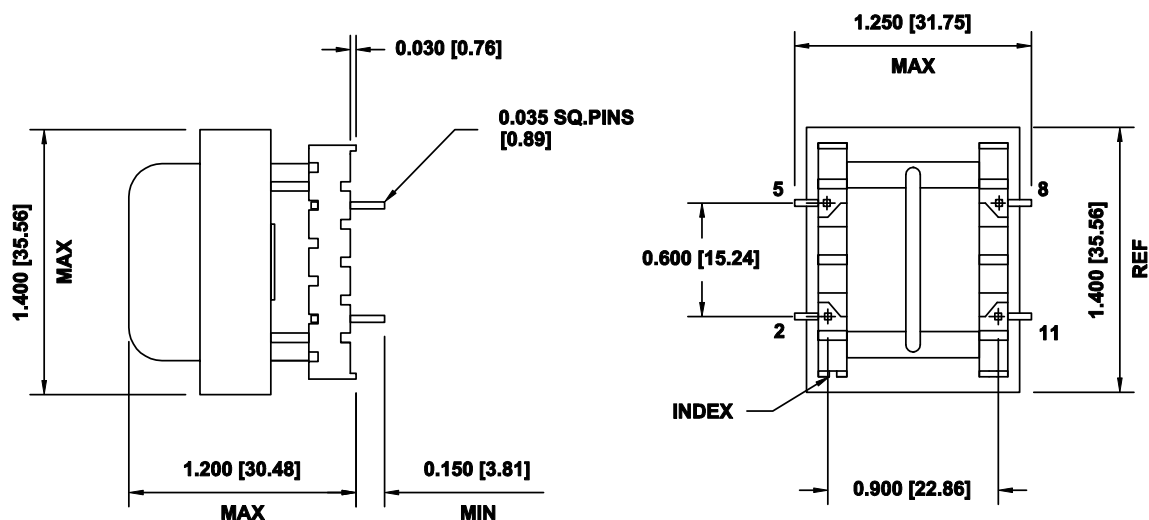


## Common Mode Chokes

### Package 1

- Wide Range of currents and inductances available.
- 0.50 Amps to 4 Amps.
- 0.35 mH to 14.3 mH.

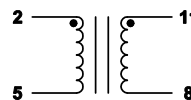
- Cost effective design.
- Low interwinding capacitance.
- Class B (130°C) insulation.
- 3750 Vrms isolation between windings.



### 320 Series E-Core Common Mode chokes

Package 1			
MODEL NUMBER	MAXIMUM CURRENT (A rms)	Lp +/- 25% (mH)*	MAXIMUM DCR EACH WINDING (Ohm)
320-0545	0.50	14.30	0.800
320-0546	0.75	6.10	0.400
320-0547	1.00	5.32	0.300
320-0548	1.25	3.80	0.210
320-0549	1.50	2.18	0.125
320-0550	2.00	1.13	0.075
320-0551	2.50	0.89	0.055
320-0552	3.00	0.68	0.040
320-0553	3.50	0.50	0.027
320-0554	4.00	0.35	0.023

### SCHEMATIC



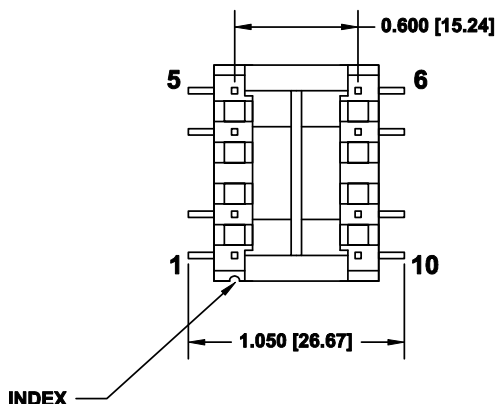
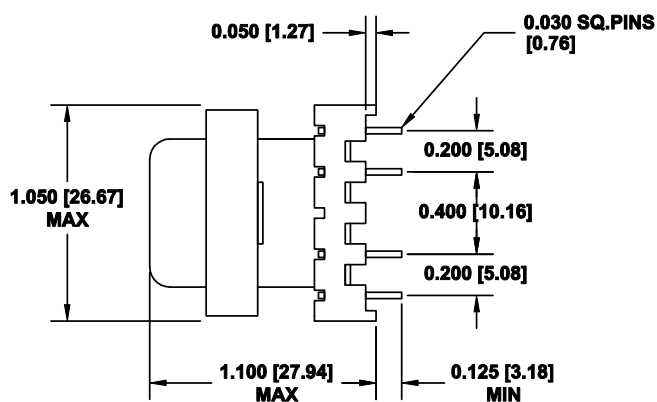
\* Measured criteria: 10mV / 10 KHz.

# Common Mode Chokes

## Package 2

- Wide Range of currents and inductances available.
- 0.50 Amps to 4 Amps.
- 0.35 mH to 14.3 mH.

- Cost effective design.
- Low interwinding capacitance.
- Class B (130°C) insulation.
- 3750 Vrms isolation between windings.

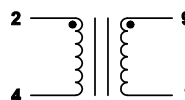


### 320 Series E-Core Common Mode chokes

Package 2			
MODEL NUMBER	MAXIMUM CURRENT (A rms)	Lp +/- 25% (mH)*	MAXIMUM DCR EACH WINDING (Ohm)
320-0556	0.50	8.28	0.850
320-0557	0.75	6.20	0.600
320-0558	1.00	2.98	0.325
320-0559	1.25	2.07	0.225
320-0560	1.50	0.92	0.130
320-0561	2.00	0.58	0.080
320-0562	2.50	0.45	0.056
320-0563	3.00	0.33	0.040
320-0564	3.50	0.23	0.030
320-0565	4.00	0.15	0.025

\* Measured criteria: 10mV / 10 KHz.

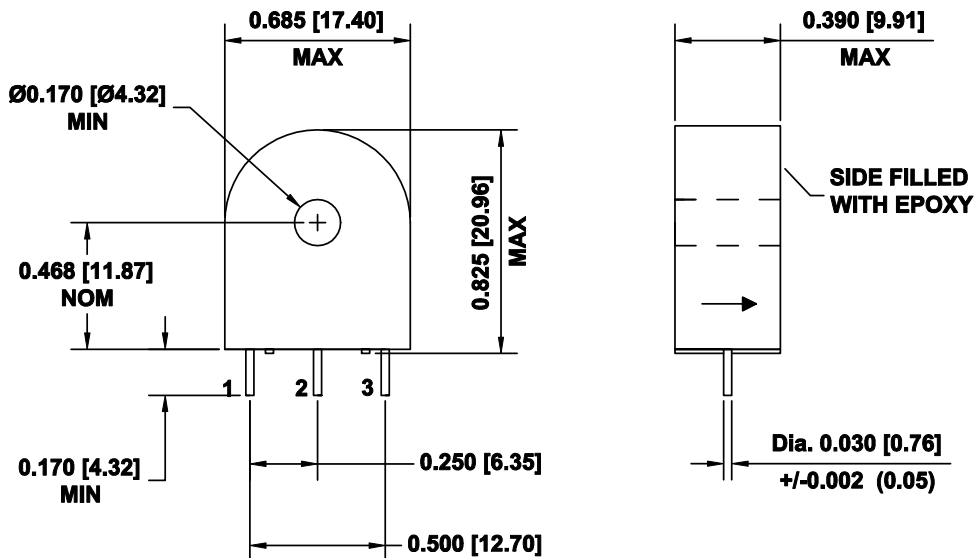
### SCHEMATIC



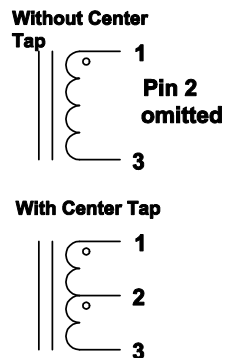
## Current Sense Transformers

### CSI SERIES WITHOUT PRIMARY TURN

- Designed for switching power supply applications.
- Frequency range of 20 KHz and higher.
- Minimum material thickness from hole I.D to coil is 0.50mm.
- Molded construction with through-hole for primary lead.



### SCHEMATIC

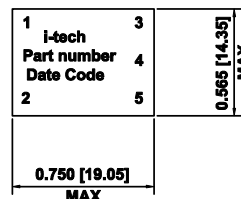
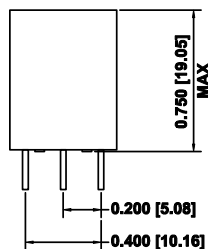
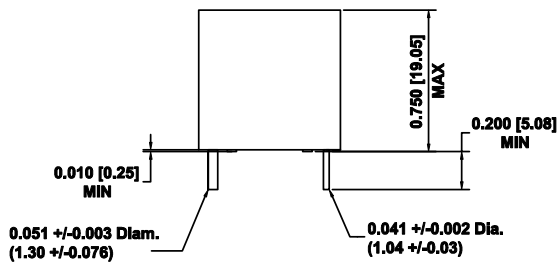


MODEL NUMBER	SECONDARY TURNS	MINIMUM SECONDARY INDUCTANCE mH	I PEAK A
CSI-0050	50	5.0	20
CSI-0100	100	20.0	20
CSI-0200	200	80.0	20
CSI-0050-CT	50 CT	5.0	20
CSI-0100-CT	100 CT	20.0	20
CSI-0200-CT	200 CT	80.0	20
CSI-0300-CT	300 CT	180.0	20

# Current Sense Transformers

## CST SERIES WITH ONE SINGLE TURN PRIMARY

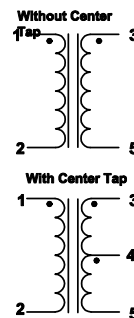
- Single primary turn included.
- Designed for switching power supply applications.
- Transformer meets IEC950 insulation requirements.
- 3750 Vrms primary to secondary hi-pot tested.
- Frequency range of 20 KHz and higher.
- Encapsulated construction.



PIN 4 OMITTED ON UNITS WITHOUT CENTER TAP

MODEL NUMBER	SECONDARY TURNS	MINIMUM SECONDARY INDUCTANCE mH	I PEAK A
CST-0050-1T	50	5.0	20
CST-0100-1T	100	20.0	20
CST-0200-1T	200	80.0	20
CST-0050-1TCT	50 CT	5.0	20
CST-0100-1TCT	100 CT	20.0	20
CST-0200-1TCT	200 CT	80.0	20
CST-0300-1TCT	300 CT	180.0	20

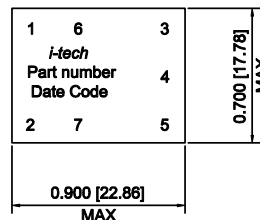
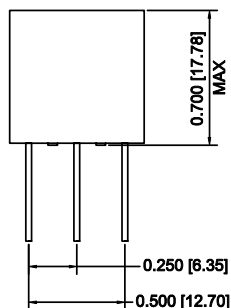
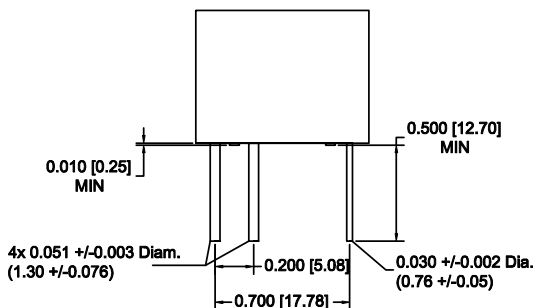
### SCHEMATIC



## Current Sense Transformers

### CST SERIES WITH TWO SINGLE TURNS PRIMARIES

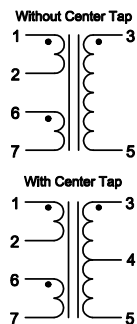
- Two individual primary turns included.
- Designed for switching power supply applications.
- Transformer meets IEC950 insulation requirements.
- 3750 Vrms primary to secondary hi-pot tested.
- Frequency range of 20 KHz and higher.
- Encapsulated construction.



PIN 4 OMITTED ON UNITS WITHOUT CENTER TAP

MODEL NUMBER	SECONDARY TURNS	MINIMUM SECONDARY INDUCTANCE mH	I PEAK A
CST-0050-2T	50	5.0	20
CST-0100-2T	100	20.0	20
CST-0200-2T	200	80.0	20
CST-0050-2TCT	50 CT	5.0	20
CST-0100-2TCT	100 CT	20.0	20
CST-0200-2TCT	200 CT	80.0	20
CST-0300-2TCT	300 CT	180.0	20

#### SCHEMATIC

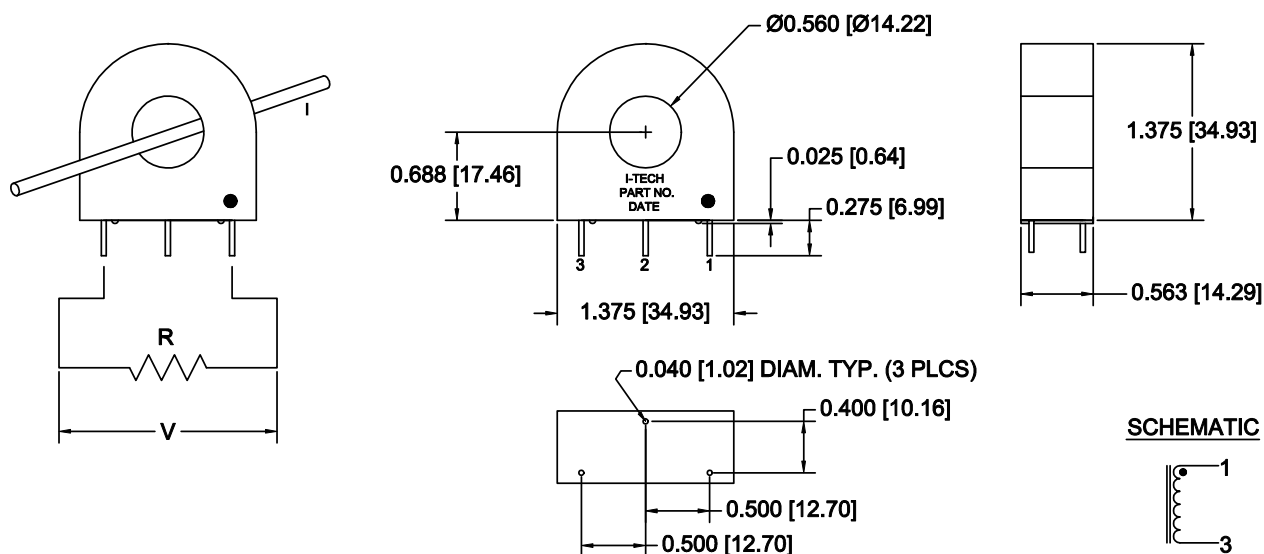


## Current Sense Transformers

TR- SERIES, FOR 50/60 and 400 Hz APPLICATIONS

- Low Cost.
- 5 standard turns ratios.
- Vertical PCB Mounting.

- Minimum material thickness from hole I.D to coil is 0.80mm.
- Molded construction with through-hole for primary lead.



MODEL NUMBER	SECONDARY TURNS	MAXIMUM PRIMARY CURRENT AMPS (RMS)
TR-3025-PC	300	100
TR-5025-PC	500	100
TR-10025-PC	1000	100
TR-20025-PC	2000	100
TR-30025-PC	3000	100

## Electro Technik Companies

### Capacitive Products

#### Arizona Capacitors, Inc.

3151 E. Drexel Road  
Tucson, AZ 85706  
tel: 520-573-0221 fax: 520-573-0520  
sales@arizonacapacitors.com  
www.arizonacapacitors.com

- Wound Film Capacitors and Electronic Filters

### Microwave Products

#### Res-Net Microwave, Inc.

P.O. Box 18802  
Clearwater, FL 33762  
tel: 727-530-9555 fax: 727-535-3508  
res\_sales\_service@electrotechnik.com  
www.res-netmicrowave.com

- RF/Microwave Resistors, Attenuators, Terminations

#### Wavetronix Corp.

P.O. Box 18802  
Clearwater, FL 33762  
tel: 727-530-9555 fax: 727-535-3508  
wave\_sales\_service@electrotechnik.com  
www.wavetronix-eti.com

- RF/Microwave Cable Assemblies and Semi-Rigid Coaxial Cables

ELECTRO TECHNIK



I-TECH

### Magnetics Products

#### Hytronics Corp.

P.O. Box 18802  
12449 Enterprise Blvd.  
Largo, FL 33773  
tel: 727-535-0413 fax: 727-531-1592  
hy\_sales\_service@electrotechnik.com  
www.hytronicscorp.com

- Power Transformers and Power Inductors

#### Raycom Electronics, Inc.

P.O. Box 250  
1 Raycom Rd.  
Dover, PA 17315  
tel: 717-292-3641 fax: 717 292-2919  
Duane Goodling/Customer Service  
www.raycomelectronics.com

- Custom Military and Avionics Magnetics

#### Goguen Industries

3151 East Drexel Road  
Tucson, AZ 85706  
tel: 520-573-0221 fax: 520-573-0520  
e-mail – sales@goguenindustries.com  
www.goguenindustries.com

- Specialty Inductors, Transformers, and Air Coils

#### Inductive Technologies, Inc. (I-Tech)

P.O. Box 18802,  
Clearwater, FL 33762  
tel: 727-532-4459  
toll free: 800-961-6295  
fax: 727-535-3508  
www.inductech.com

- Standard Catalog Inductors and Transformers

#### Winatic Corp.

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Largo, FL 33773  
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win\_sales\_service@electrotechnik.com  
www.winatic.com

- Transformers and Inductors for Medical Devices and Equipment

### Resistive Products

#### Tepro

P.O. Box 1260  
12449 Enterprise Blvd.  
Largo, FL 33773  
tel: 727-796-1044 fax: 727-791-7425  
tep\_sales\_service@electrotechnik.com  
www.tepro-varistor.com

- Wirewound and Metal Film Resistors

#### Vamistor

P.O. Box 1260  
Clearwater, FL 33757  
tel: 727-796-1044 fax: 727-791-7425  
tep\_sales\_service@electrotechnik.com  
www.tepro-varistor.com

- Carbon Film and RL 42 Resistors

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