

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
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- T1/CEPT/ISDN Primary Transformers
 - Surface Mount Toroids
 - Common Mode Chokes

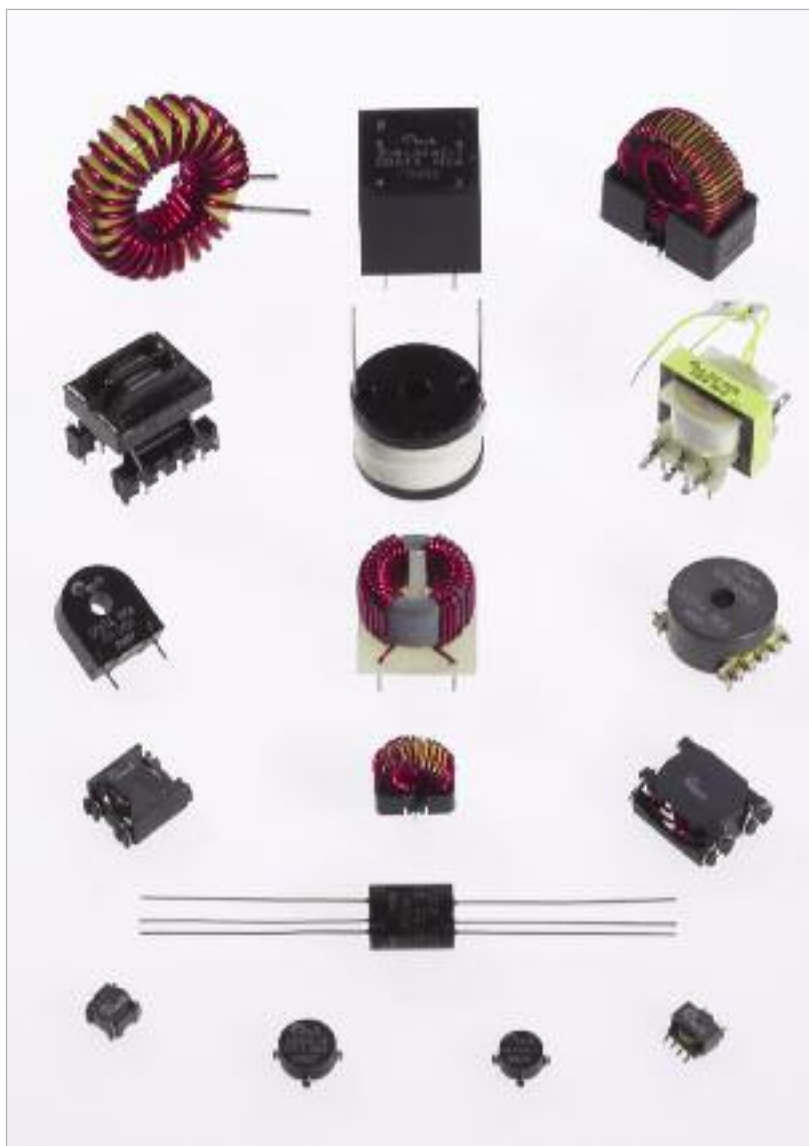


Table of Contents

Toroidal and Pot Core Inductors	4
Pot Core Flyback Transformers	7
Drum Core Power Inductors	8
T1/CEPT/ISDN Primary Transformers	13
Surface Mount Toroids	14
Surface Mount Power Inductors	19
Common Mode Chokes	24
Current Sense Transformers	28

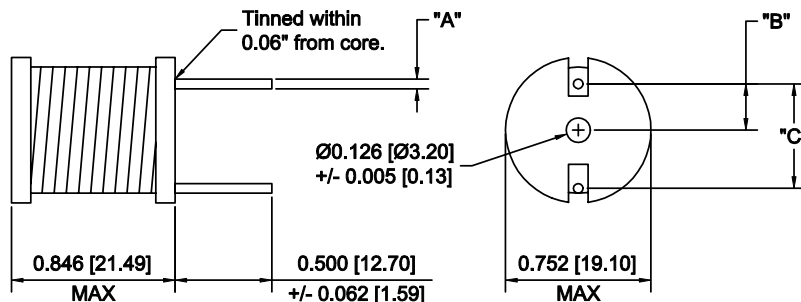
Inductive Technologies (I-Tech) was originally founded in 1998 when the magnetics division of C&K Components, Inc. of Watertown, Massachusetts was spun off. In the spring of 2010, Electro Technik Industries, Inc. (ETI) acquired Inductive Technologies.

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 μ 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.



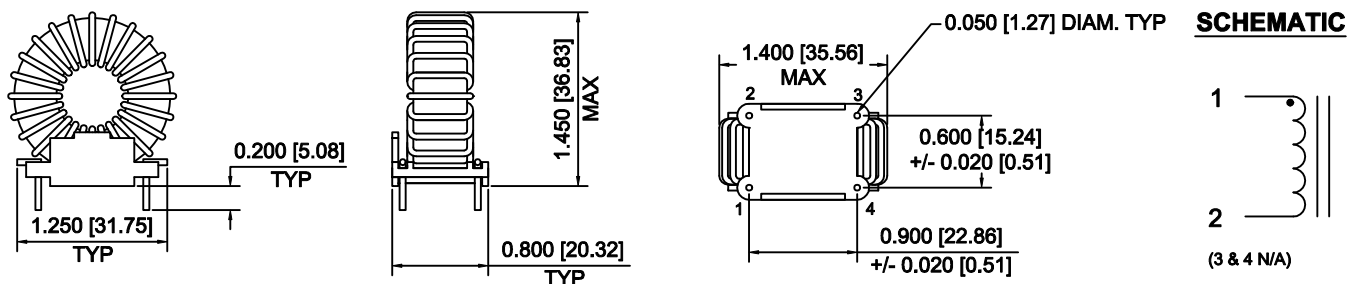
Size 2													
MODEL NUMBER	INDUCTANCE AT RATED CURRENT (μ H) +/-10%	RATED CURRENT (A)	MAXIMUM DCR @ 25°C (Ohm)	LEAD WIRE "A" (AWG)	DIMENSION		MODEL NUMBER	INDUCTANCE AT RATED CURRENT (μ H) +/-10%	RATED CURRENT (A)	MAXIMUM DCR @ 25 C Ohms	LEAD WIRE "A"	DIMENSION	
					"B" (IN)	"C" (IN)						"B" (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 (μH)	MINIMUM ET ($\text{V}\mu\text{s}$)	RATED CURRENT (Adc)	INDUCTANCE NO DC +/- 20% (μH)*	MAXIMUM DCR (Ohm)
418-0933	1500	200	0.62	1150	1.00
418-0945	2200	200	0.42	1730	1.80

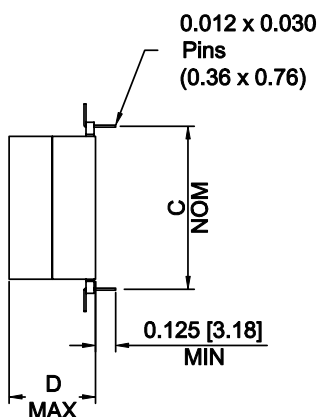
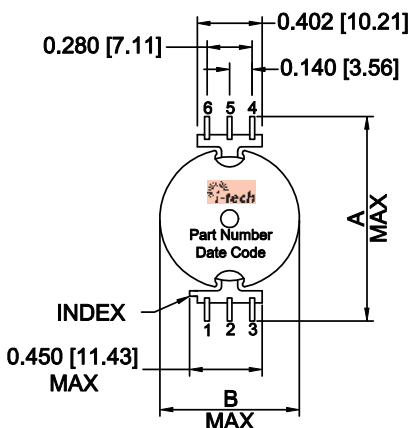
Note: Originally designed for use with National Semiconductor's Simple Switchers Step-Down Voltage Regulator Series: LM1575-XX/LM2575-XX and LM1577-XX/LM2577-XX.

- Measured criteria: 10mV / 15 KHz.

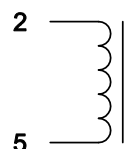
Toroidal and Pot Core Inductors

415 SERIES POT CORE INDUCTOR

- Inductors from 47 μH to 2200 μH .
- 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



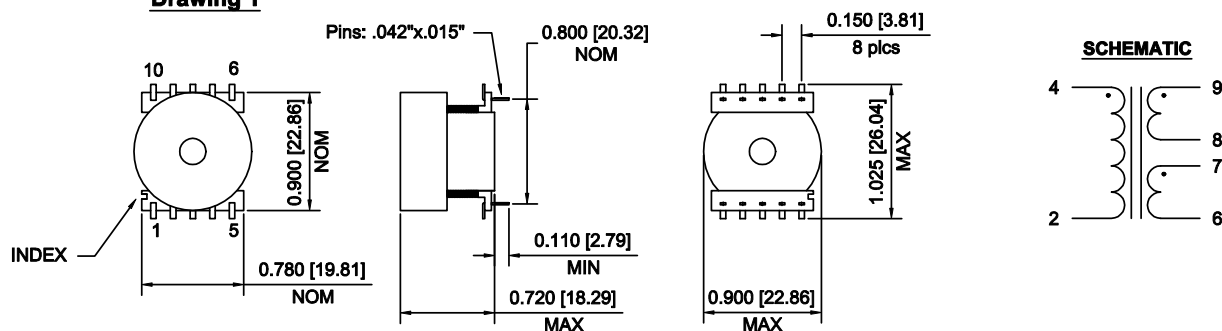
MODEL NUMBER	REFERENCE OPERATING VALUES			DESIGN CONTROL VALUES		DIMENSIONS +/- 0.030 (0.76)			
	INDUCANCE VALUE (μH)	MINIMUM ET ($\text{V}\mu\text{s}$)	RATED CURRENT (A _{dc})	INDUCTANCE NO DC +/- 20% (μH)*	MAXIMUM DCR (Ohm)	A In. (mm)	B In. (mm)	C In. (mm)	D In. (mm)
415-0922	220	90	1.30	220	0.070	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.

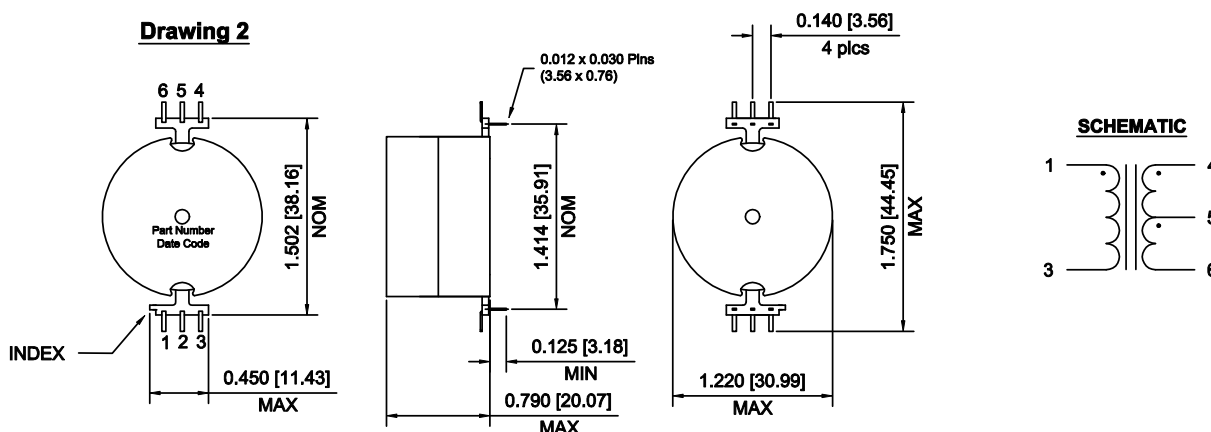
Pot Core Flyback Transformers

- 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

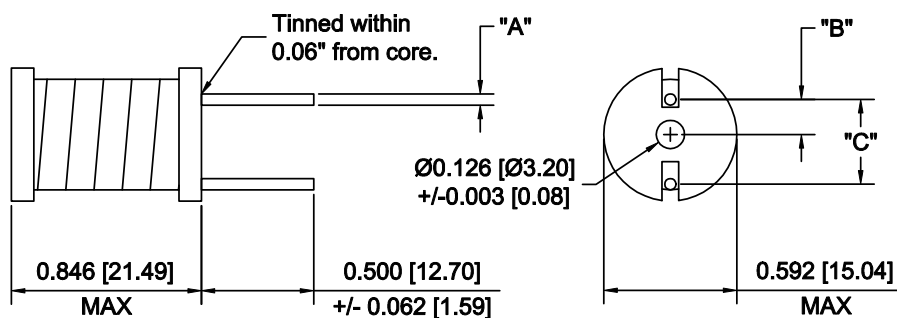


MODEL NUMBER	PRIMARY INDUCTANCE (μH)	INPUT VOLTAGE (V)	DUAL OUTPUT VOLTAGE (V)	MAXIMUM OUPUT CURRENT (mA)	DRAWING AND SCHEMATIC
326-0637	100 (90-110)	5	+/- 15V	225	1
330-0202	200 (180-210)	12	+/- 15V	575	2
330-0203	250 (240-270)	15	+/- 15V	700	2

* Measured criteria: 0.1V @ 10kHz.

Drum Core Power Inductors

- Broad range of inductance values; 0.8-1000 μ 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.

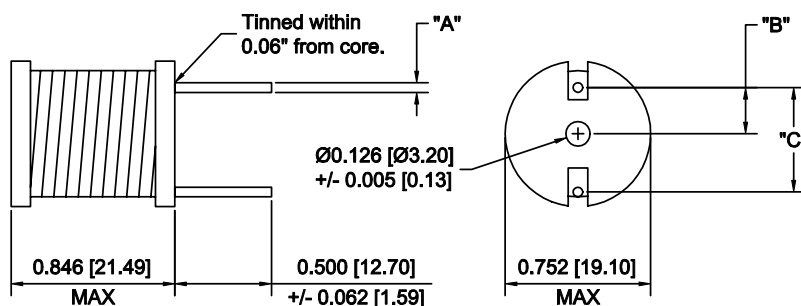


Size 1													
MODEL NUMBER	INDUCTANCE AT RATED CURRENT (μ H) $\pm 10\%$	RATED CURRENT (A)	MAXIMUM DCR @ 25°C (Ohm)	LEAD WIRE "A" (AWG)	DIMENSION		MODEL NUMBER	INDUCTANCE AT RATED CURRENT (μ H) $\pm 10\%$	RATED CURRENT (A)	MAXIMUM DCR @ 25°C (Ohm)	LEAD WIRE "A" (AWG)	DIMENSION	
					"B" (IN)	"C" (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 μ 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.



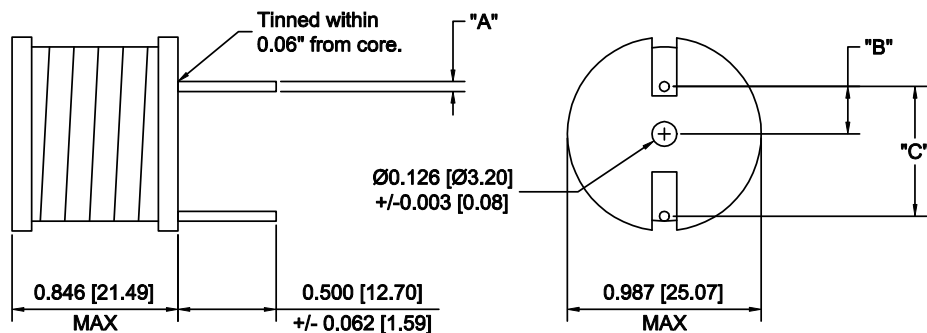
Size 2

MODEL NUMBER	INDUCTANCE AT RATED CURRENT (μ H) +/-10%	RATED CURRENT (A)	MAXIMUM DCR @ 25°C (Ohm)	LEAD WIRE "A" (AWG)	DIMENSION		MODEL NUMBER	INDUCTANCE AT RATED CURRENT (μ 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 μ 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.



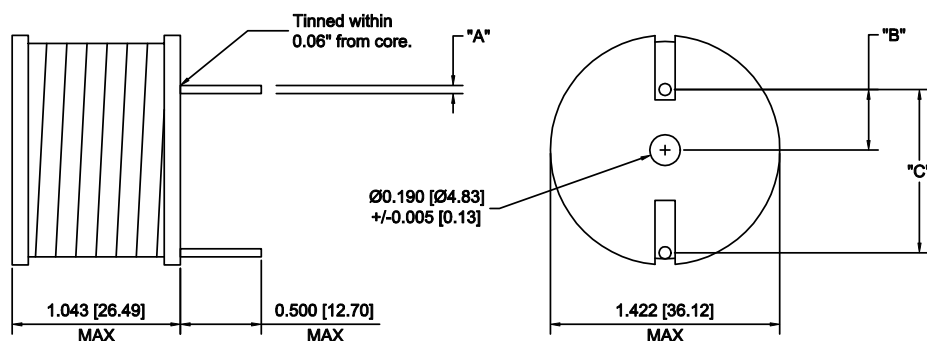
Size 3						
MODEL NUMBER	INDUCTANCE AT RATED CURRENT (μ H) +/-10%	RATED CURRENT (A)	MAXIMUM DCR @ 25°C (Ohm)	LEAD WIRE "A" (AWG)	DIMENSION	
					"B" (IN)	"C" (IN)
423-0141	500.0	1.0	0.280	22	.270	.680
423-0150	130.0	1.5	0.800	20	.273	.652
423-0151	160.0	1.5	0.900	20	.273	.652
423-0152	220.0	1.5	0.100	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 (μ 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 μ 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.



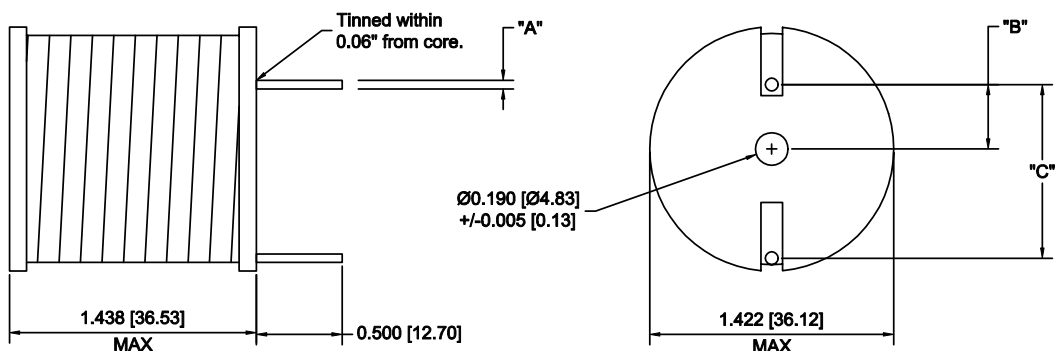
Size 4

MODEL NUMBER	INDUCTANCE AT RATED CURRENT (μ H) +/-10%	RATED CURRENT (A)	MAXIMUM DCR @ 25°C (Ohm)	LEAD WIRE "A" (AWG)	DIMENSION		MODEL NUMBER	INDUCTANCE AT RATED CURRENT (μ 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.

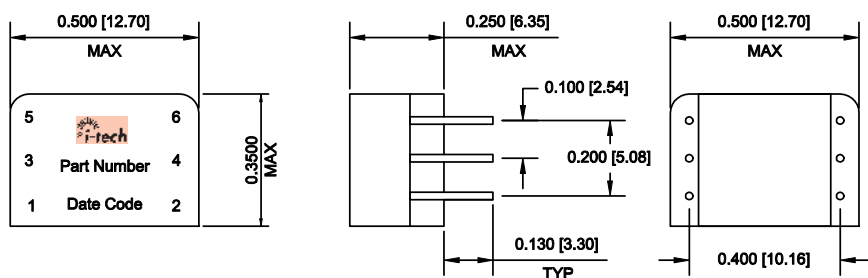


Size 5													
MODEL NUMBER	INDUCTANCE AT RATED CURRENT (μH) +/-10%	RATED CURRENT (A)	MAXIMUM DCR @ 25°C (Ohm)	LEAD WIRE "A" (AWG)	DIMENSION		MODEL NUMBER	INDUCTANCE AT RATED CURRENT (μH) +/-10%	RATED CURRENT (A)	MAXIMUM DCR @ 25°C (Ohm)	LEAD WIRE "A" (AWG)	DIMENSION	
					"B" (IN)	"C" (IN)						"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.

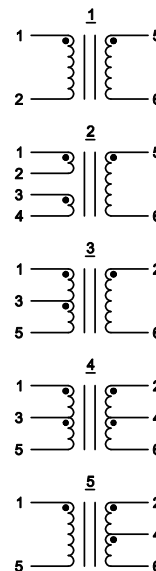


Unused pins are not provided.
Leads are Solderable 24AWG
Tolerance +/- 0.010 (0.25)

Normal Temperature Range

Model number	Turns ratio P:S +/-5%	OCL@25C mH, Min *	L _L uH Max	C _{w/w} 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



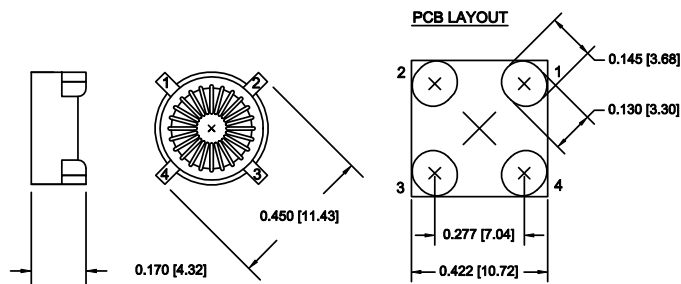
Extended Temperature Range

Model number	Turns ratio P:S +/-5%	OCL@25C mH, Min *	L _L uH Max	C _{w/w} 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[®] 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	

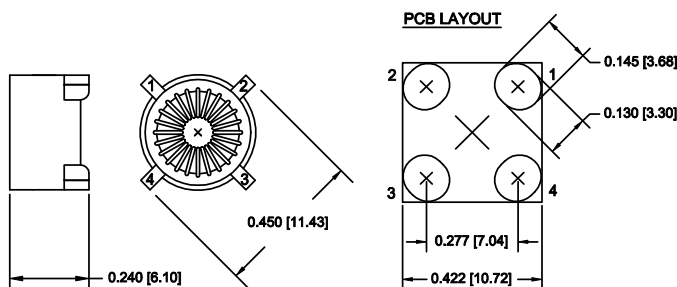
618 Series Toroids With Kool Mu[®] Cores and 01 Case Size

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[®] 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[®] 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% μ H	MINIMUM FULL LOAD INDUCTANCE μ H	FULL LOAD CURRENT A dc	MAXIMUM DC RESISTANCE Ohms	OPEN CIRCUIT INDUCTANCE +/-20% μ H	MINIMUM FULL LOAD INDUCTANCE μ 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	

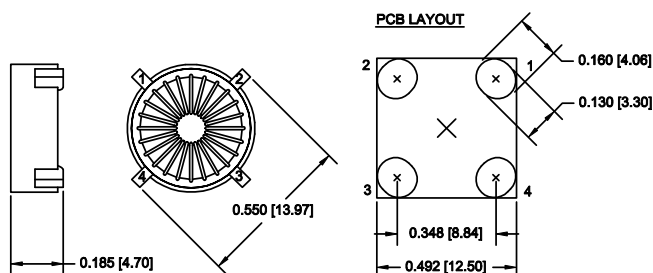
618 Series Toroids With Kool Mu[®] Cores and 02 Case Size

MODEL NUMBER	PARALLEL				SERIES				CIRCUIT DIAGRAM
	OPEN CIRCUIT INDUCTANCE +/-20% μ H	MINIMUM FULL LOAD INDUCTANCE μ H	FULL LOAD CURRENT A dc	MAXIMUM DC RESISTANCE Ohms	OPEN CIRCUIT INDUCTANCE +/-20% μ H	MINIMUM FULL LOAD INDUCTANCE μ 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[®] 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[®] 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% μ H	MINIMUM FULL LOAD INDUCTANCE μ H	FULL LOAD CURRENT A dc	MAXIMUM DC RESISTANCE Ohms	OPEN CIRCUIT INDUCTANCE +/-20% μ H	MINIMUM FULL LOAD INDUCTANCE μ 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	

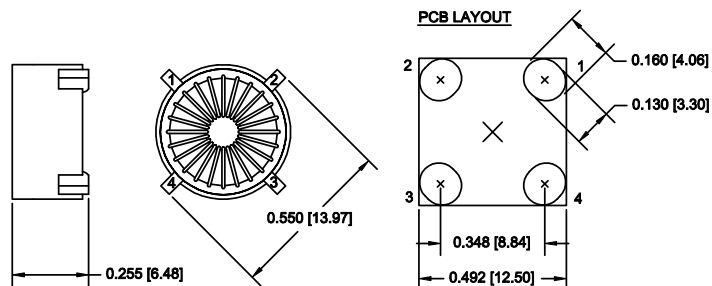
618 Series Toroids With Kool Mu[®] Cores and 03 Case Size

MODEL NUMBER	PARALLEL				SERIES				CIRCUIT DIAGRAM
	OPEN CIRCUIT INDUCTANCE +/-20% μ H	MINIMUM FULL LOAD INDUCTANCE μ H	FULL LOAD CURRENT A dc	MAXIMUM DC RESISTANCE Ohms	OPEN CIRCUIT INDUCTANCE +/-20% μ H	MINIMUM FULL LOAD INDUCTANCE μ 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[®] 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[®] 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% μ H	MINIMUM FULL LOAD INDUCTANCE μ H	FULL LOAD CURRENT A dc	MAXIMUM DC RESISTANCE Ohms	OPEN CIRCUIT INDUCTANCE +/-20% μ H	MINIMUM FULL LOAD INDUCTANCE μ H	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	

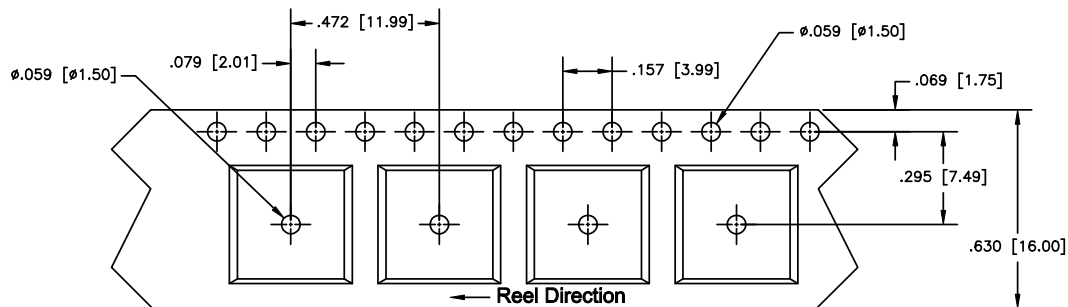
618 Series Toroids With Kool Mu[®] Cores and 04 Case Size

MODEL NUMBER	PARALLEL				SERIES				CIRCUIT DIAGRAM
	OPEN CIRCUIT INDUCTANCE +/-20% μ H	MINIMUM FULL LOAD INDUCTANCE μ H	FULL LOAD CURRENT A dc	MAXIMUM DC RESISTANCE Ohms	OPEN CIRCUIT INDUCTANCE +/-20% μ H	MINIMUM FULL LOAD INDUCTANCE μ H	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	

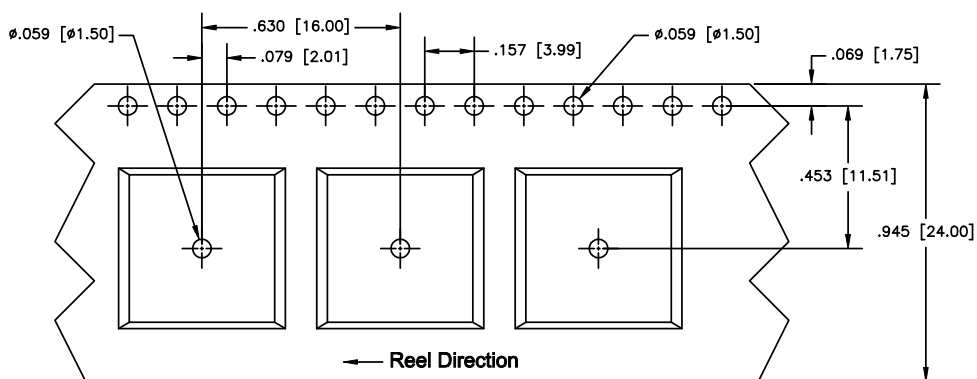
Kool Mu[®] is a registered trade mark of Magnetics, Inc.

Surface Mount Toroids

TAPE AND REEL PACKAGING



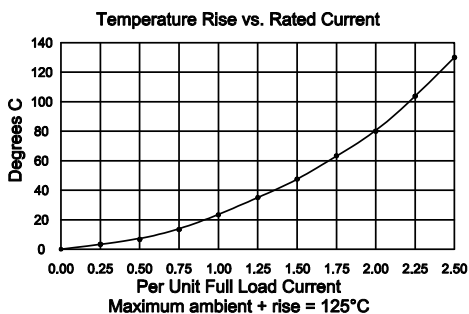
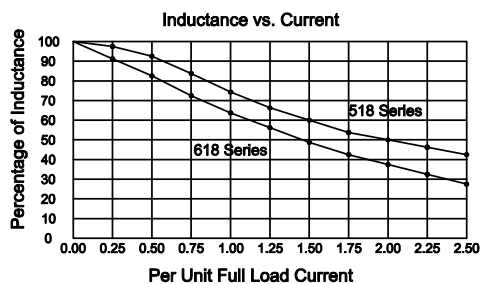
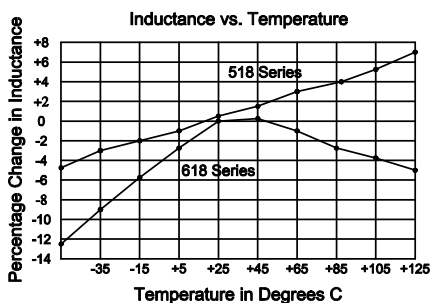
01 CASE SIZE: 1100 toroids per reel.



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.

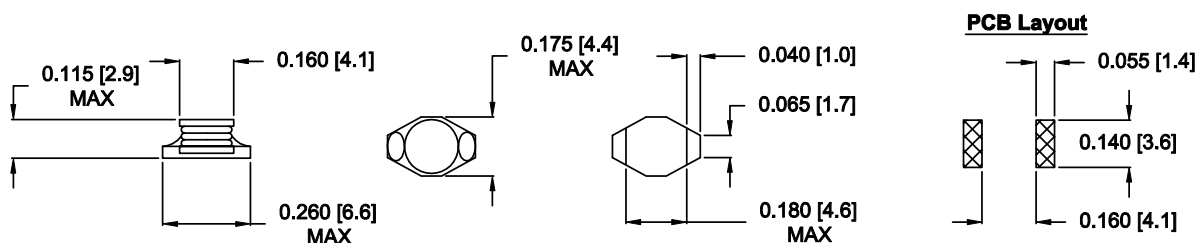


Surface Mount Power Inductors

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 (μ H) +/-20%	RATED CURRENT (A)	DCR (Ω) 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.

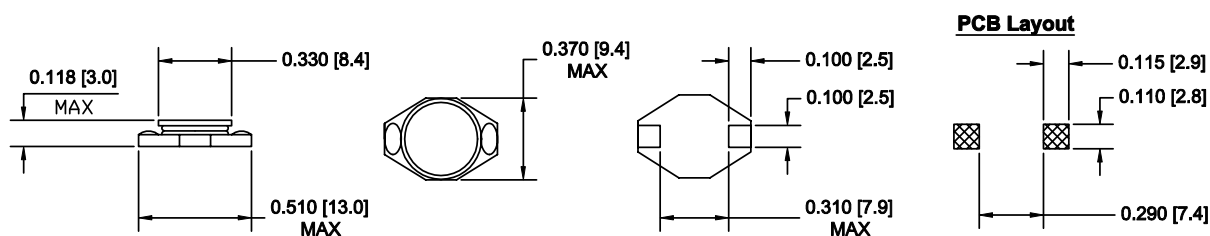
* Reel contains 2500 pcs on a 13" reel.

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 (μ H) +/-20%	RATED CURRENT (A)	DCR (Ω) 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.

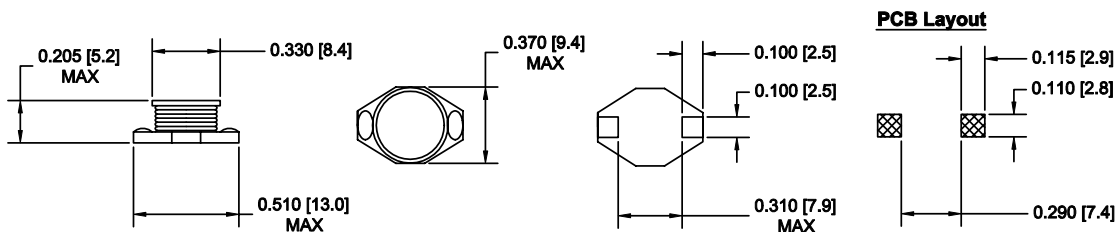
* Reel contains 1000 pcs on a 13" reel.

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 (μ H) +/-20%	RATED CURRENT (A)	DCR (Ω) 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.

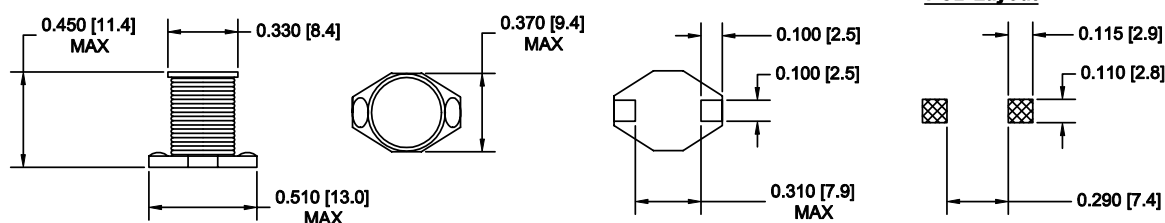
* Reel contains 1000 pcs on a 13" reel.

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 (μ H) +/-20%	RATED CURRENT (A)	DCR (Ω) 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

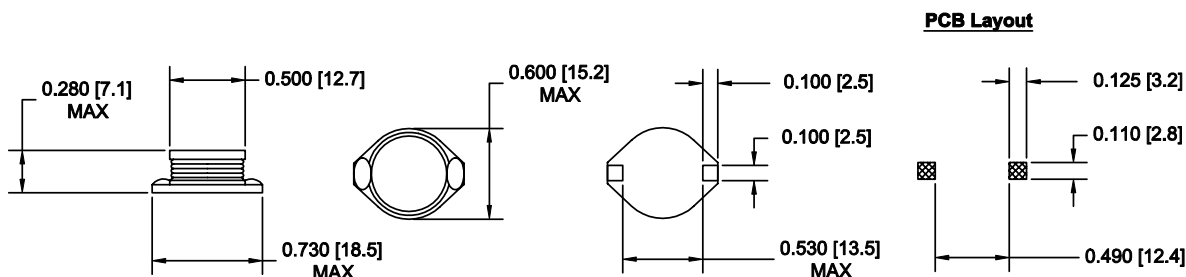
- Reel contains 225 pcs on a 13" reel.

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 (μ H) +/-20%	RATED CURRENT (A)	DCR (Ω) 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

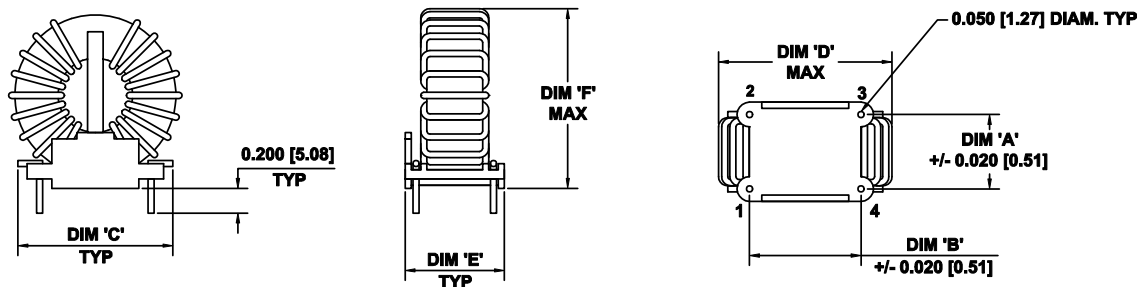
- Notes: 1. Inductance is tested at 100KHz using an HP4284A LCR meter.
 2. DCR is measured using an HP4338A Milliohm meter
 3. SRF is measured using an HP3577A Network analyzer

* 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%.



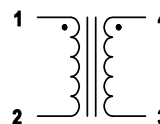
PACKAGE 1											
MODEL NUMBER	RATED CURRENT (Arms)	INDUCTANCE L (mH)	TYPICAL LEAKAGE INDUCTANCE (μH)	TYPICAL IWC (pF)	MAXIMUM DCR @ 25 C (Ohm)	MODEL NUMBER	RATED CURRENT (Arms)	INDUCTANCE L (mH)	TYPICAL LEAKAGE INDUCTANCE (μH)	TYPICAL IWC (pF)	MAXIMUM DCR @ 25 C (Ohm)
CMC-2001	1.0	5.0	57	20	0.250	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

- Measured criteria: 10mV / 10 KHz.

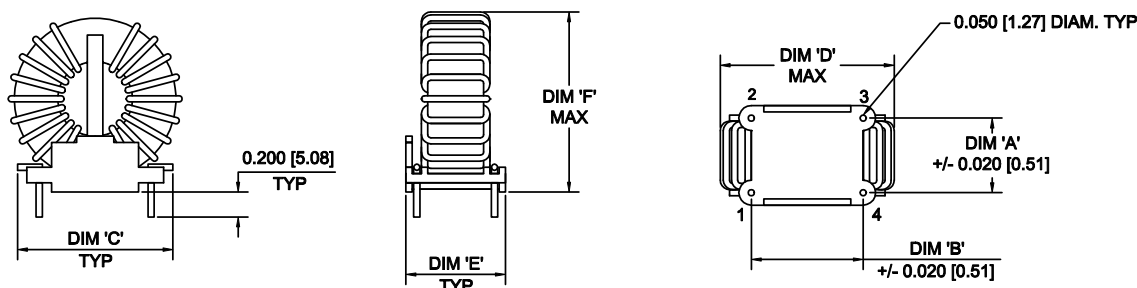
SCHEMATIC



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%.



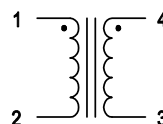
PACKAGE 3											
MODEL NUMBER	RATED CURRENT (Amps)	INDUCTANCE L (mH)	TYPICAL LEAKAGE INDUCTANCE (μH)	TYPICAL IWC (pF)	MAXIMUM DCR @ 25 C (Ohm)	MODEL NUMBER	RATED CURRENT (Amps)	INDUCTANCE L (mH)	TYPICAL LEAKAGE INDUCTANCE (μH)	TYPICAL IWC (pF)	MAXIMUM DCR @ 25 C (Ohm)
CMC-2201	1.0	32.0	292	58	0.712	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.

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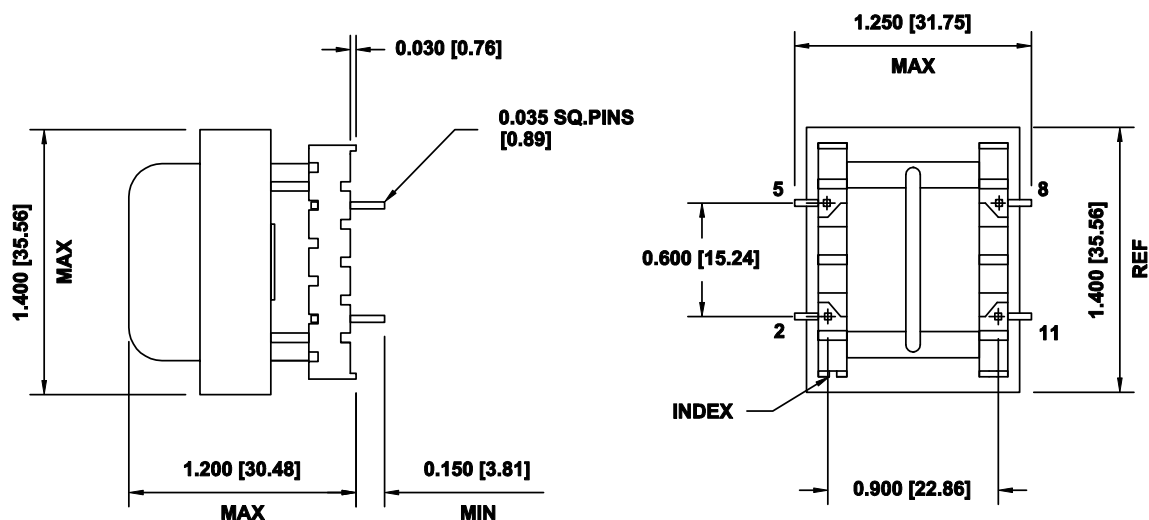


Common Mode Chokes

Package 1

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

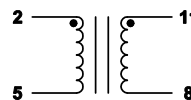
- Cost effective design.
- Low interwinding capacitance.
- Class B (130°C) insulation.
- 3750 Vrms isolation between windings.



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



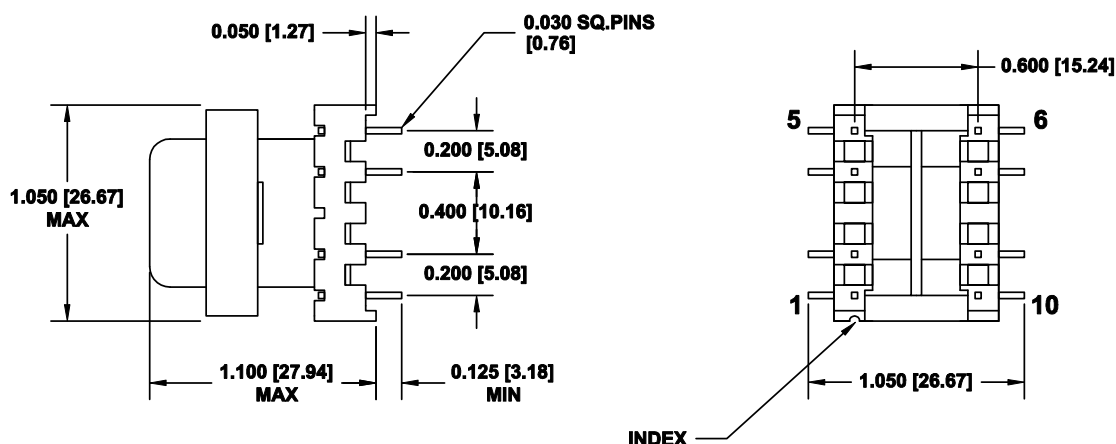
* Measured criteria: 10mV / 10 KHz.

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.

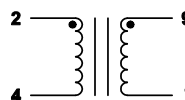


320 Series E-Core Common Mode chokes

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.

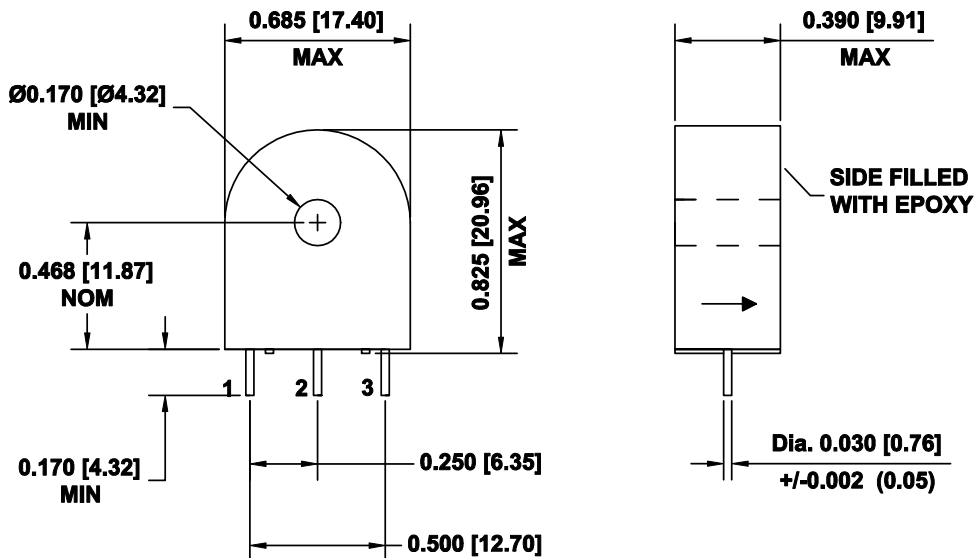
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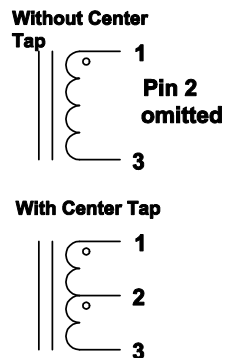
Current Sense Transformers

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

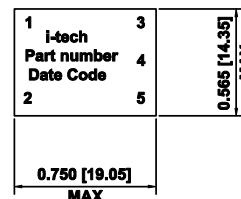
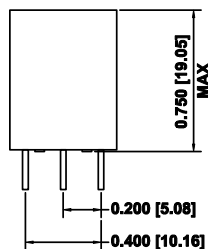
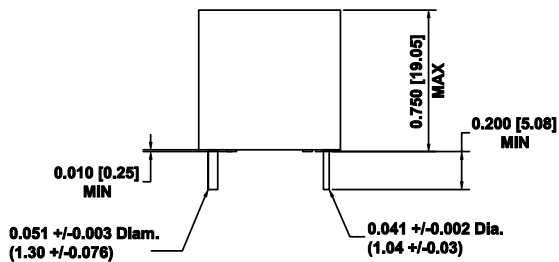


MODEL NUMBER	SECONDARY TURNS	MINIMUM SECONDARY INDUCTANCE mH	I PEAK A
CSI-0050	50	5.0	20
CSI-0100	100	20.0	20
CSI-0200	200	80.0	20
CSI-0050-CT	50 CT	5.0	20
CSI-0100-CT	100 CT	20.0	20
CSI-0200-CT	200 CT	80.0	20
CSI-0300-CT	300 CT	180.0	20

Current Sense Transformers

CST SERIES WITH ONE SINGLE TURN PRIMARY

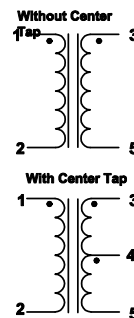
- Single primary turn included.
- Designed for switching power supply applications.
- Transformer meets IEC950 insulation requirements.
- 3750 Vrms primary to secondary hi-pot tested.
- Frequency range of 20 KHz and higher.
- Encapsulated construction.



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

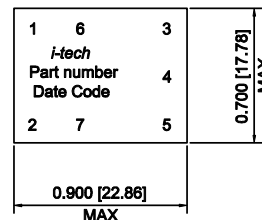
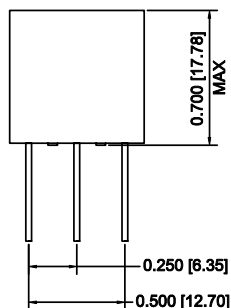
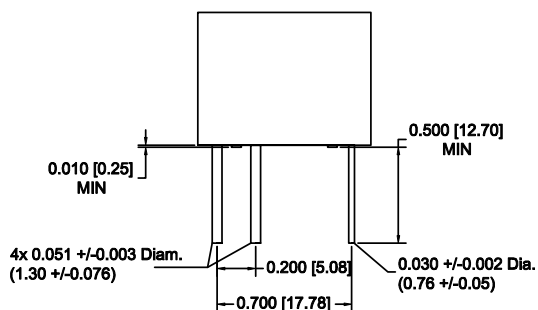
SCHEMATIC



Current Sense Transformers

CST SERIES WITH TWO SINGLE TURNS PRIMARIES

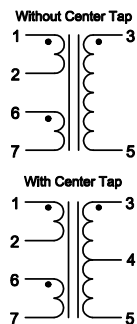
- Two individual primary turns included.
- Designed for switching power supply applications.
- Transformer meets IEC950 insulation requirements.
- 3750 Vrms primary to secondary hi-pot tested.
- Frequency range of 20 KHz and higher.
- Encapsulated construction.



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

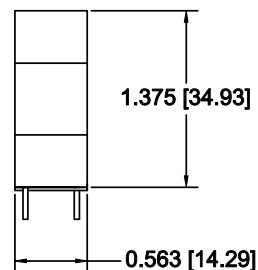
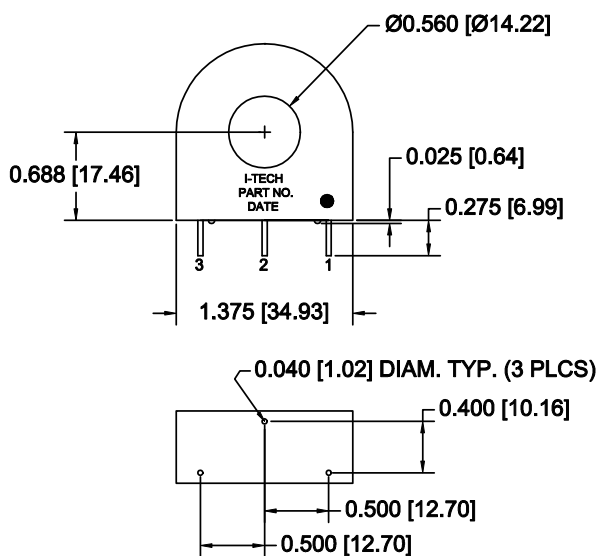
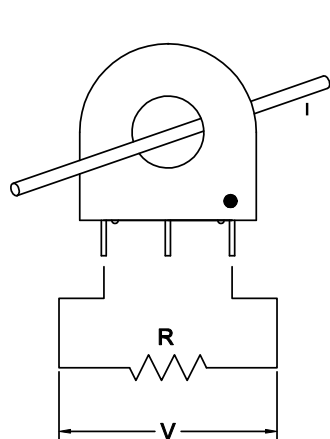


Current Sense Transformers

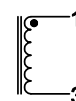
TR- SERIES, FOR 50/60 and 400 Hz APPLICATIONS

- 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.



SCHEMATIC



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

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Magnetics Products

Hytronics Corp.

P.O. Box 18802
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www.hytronicscorp.com

- Power Transformers and Power Inductors

Raycom Electronics, Inc.

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Dover, PA 17315
tel: 717-292-3641 fax: 717 292-2919
Duane Goodling/Customer Service
www.raycomelectronics.com

- Custom Military and Avionics Magnetics

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Tucson, AZ 85706
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e-mail – sales@goguenindustries.com
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- Specialty Inductors, Transformers, and Air Coils

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www.tepro-varistor.com

- Carbon Film and RL 42 Resistors

Phone: 727-532-4459; 1-800-961-6295

Fax: 727-535-3508

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