Company Profile

Yu Yang Magnetic Co., LTD., (YET) established in July 2019, is an innovative company specializing in the design and production of magnetic components.

In the face of fierce competition in the market environment, YET with its professional magnetic component development & design capabilities, subversive innovation concept, lean process control, to provide customers with high quality and low price products and services.

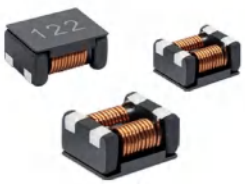
"Making exquisite magnetic components" is the eternal pursuit of YET, focusing on the creative research and development and production of magnetic components, is YET's long-term development strategy and policy.

The organization of YET is mainly composed of two departments: Special core R & D & Manufacturing center, and Magnetic Component Design & Manufacturing center.

The Special core R&D & Manufacturing center mainly provides customers with special structure of ring magnetic core, C-shaped magnetic core, and provide customized products;

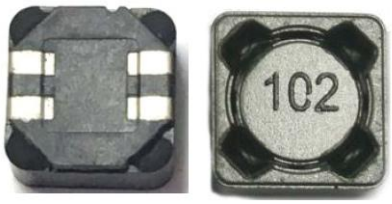
Inductor and Transformer Design & Manufacturing center mainly produces inductors and transformers and design solutions for customers, also provides OEM and ODM services for customers

All colleagues of YET look forward to working with customers to make common progress and share benefits.

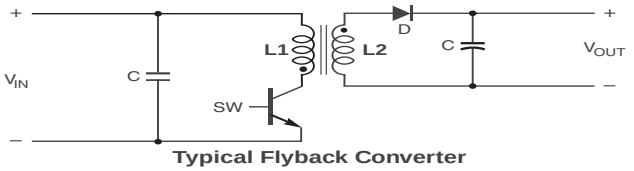


Website: https://www.yetcoil.com

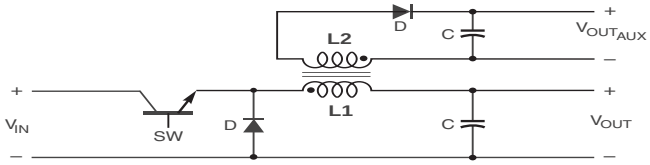
Shielded Coupled Inductors



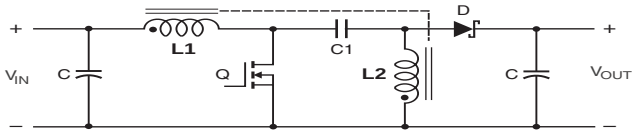
- ROHS compliant
- Factor of Coupling (k ≥ 0.97)
- Hipot 200 V between windings
- Ideal for use in a variety of circuits including flyback, multi-output buck, SEPIC.
- High efficiency and excellent current handling
- Can also be used as two single inductors connected in series or parallel, as a common mode choke or as a 1 : 1 transformer.



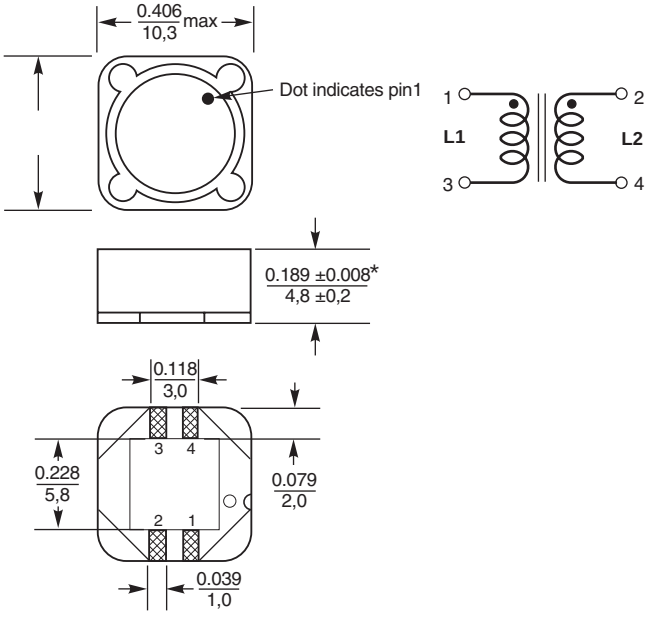
Typical Flyback Converter



Typical Buck Converter with auxiliary output

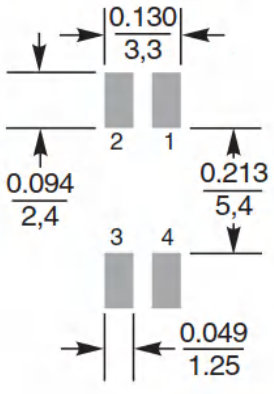


Typical SEPIC schematic



Dimensions are in inches / mm

Recommended Land Pattern



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Specification subject to change without notice.Please check web site for latest information.

Shielded Coupled Inductors

Part number	Inductance (µH)	DCR max (Ohms)	SRF typ (MHz)	Coupling coefficient typ	Leakage Inductance typ (µH)	Isat (A)	Irms (A)	
							both windings	one winding
YETSD1048-222NT	2.2 ±30%	0.019	65	0.97	0.30	9.1	2.4	3.4
YETSD1048-103MT	10 ±20%	0.053	27	>0.99	0.40	4.3	1.5	2.1
YETSD1048-223MT	22 ±20%	0.098	17	>0.99	0.45	2.9	1.3	1.9
YETSD1048-473MT	47 ±20%	0.208	12	>0.99	0.50	2.0	1.1	1.6
YETSD1048-683MT	68 ±20%	0.297	9.0	>0.99	0.55	1.7	1.0	1.4
YETSD1048-104MT	100 ±20%	0.387	7.3	>0.99	0.80	1.3	0.85	1.2
YETSD1048-224KT	220 ±10%	0.840	4.8	>0.99	1.0	0.90	0.62	0.87

1. When ordering, please specify packaging codes:

Packaging: D = 13″ machine-ready reel. EIA-481 embossed plastic tape. (800 parts per full reel).

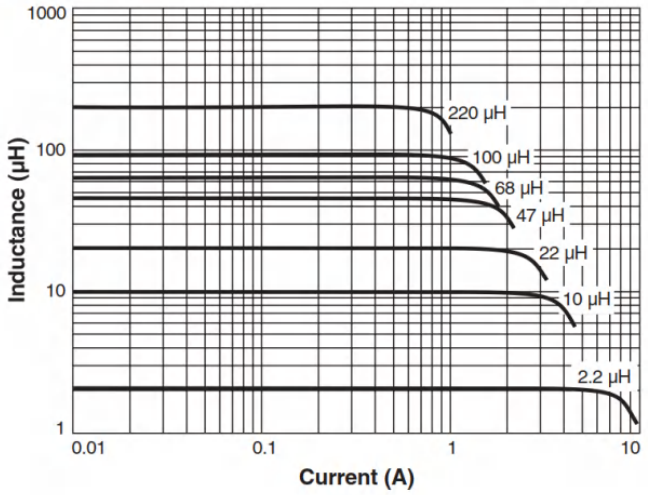
B = In bulk or less than full reel

2. Inductance shown for each winding, measured at 100 kHz, 0.1 Vrms, 0 Adc on an HP 4284A LCR meter or equivalent.
3. DCR is for each winding.
4. SRF measured using an HP 4191A or equivalent.
5. Leakage Inductance is for L1 and is measured with L2 shorted.
6. DC current at 25°C that causes a 30% (typ) inductance drop from its value without current.
7. Irms is for that causes a 40°C temperature rise from 25°C ambient when applied to each winding simultaneously. This information is for refer-ence only.
8. Electrical specifications at 25°C.

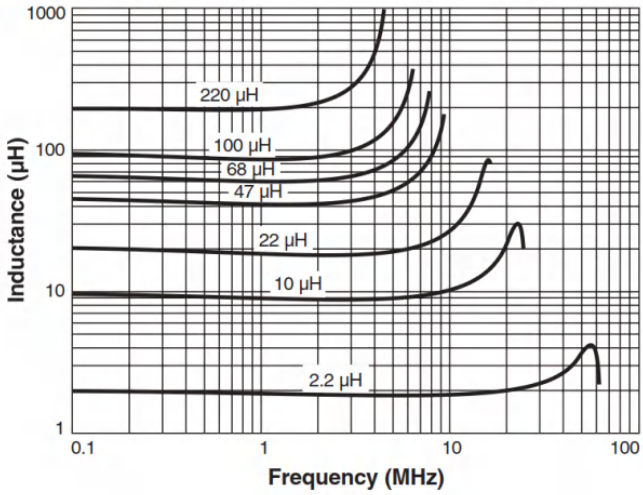
Core material Ferrite

- Core material ferrite
- **Ambient temperature** –40°C to +85°C with (40°C rise) Irms current.
- **Maximum part temperature** +125°C (ambient + temp rise).
- **Storage temperature** Component: –40°C to +125°C.
  Tape and reel packaging: –40°C to +80°C
- **Resistance to soldering heat** Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

L vs Current



L vs Frequency



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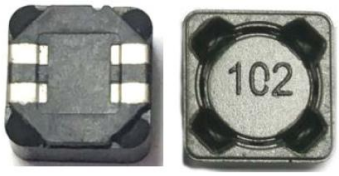
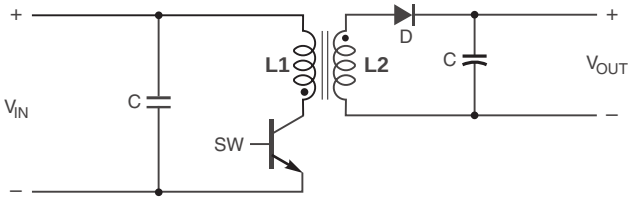
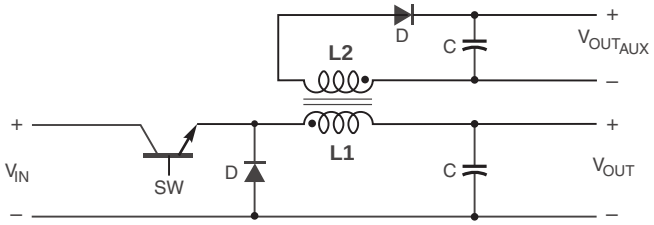
Shielded Coupled Inductors



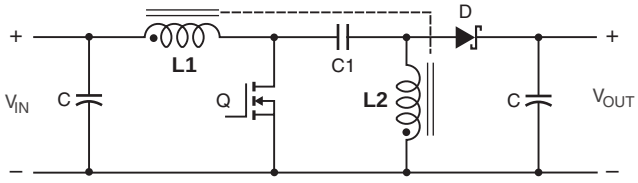
- ROHS compliant
- Factor of Coupling (k ≥ 0.97)
- Hipot 500 V between windings
- Ideal for use in a variety of circuits including flyback, multi-output buck, SEPIC.
- High efficiency and excellent current handling
- Can also be used as two single inductors connected in series or parallel, as a common mode choke or as a 1 : 1 transformer.



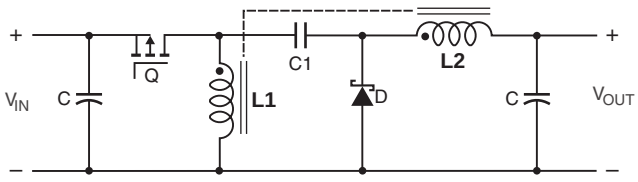
Typical Flyback Converter



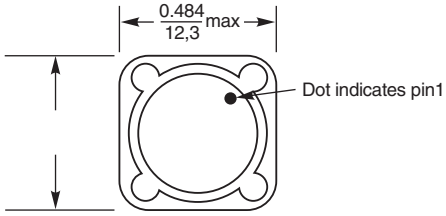
Typical Buck Converter with auxiliary output

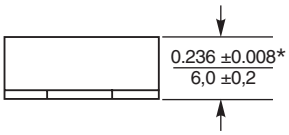


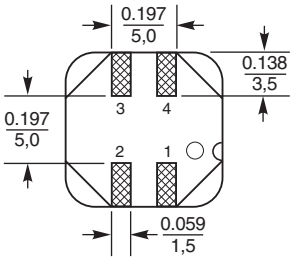
Typical SEPIC schematic



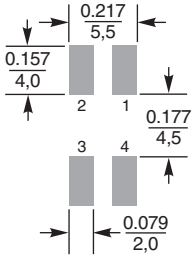
Typical Zeta schematic



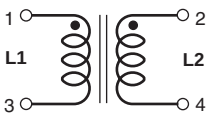




Recommended Land Pattern



Dimensions are in $\frac{\text{inches}}{\text{mm}}$



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Shielded Coupled Inductors

Part number	Inductance (µH)	DCR max (Ohms)	SRF typ (MHz)	Coupling coefficient typ	Leakage L typ (µH)	Isat (A) 10% drop	Isat (A) 20% drop	Isat (A) 30% drop	Irms (A) both windings	Irms (A) one winding
YETSD1260-332MT	3.3 ±20%	0.020	52.0	0.97	0.20	11.50	12.90	14.10	3.60	6.10
YETSD1260-472MT	4.7 ±20%	0.036	38.0	0.98	0.20	9.00	10.18	11.08	3.16	4.47
YETSD1260-562MT	5.6 ±20%	0.040	30.0	0.98	0.20	8.00	9.06	9.84	3.00	4.24
YETSD1260-682MT	6.8 ±20%	0.048	27.0	0.98	0.24	7.00	8.00	8.64	2.75	3.88
YETSD1260-822MT	8.2 ±20%	0.052	26.0	0.98	0.25	6.44	7.38	7.98	2.63	3.72
YETSD1260-103MT	10 ±20%	0.060	22.0	0.99	0.26	5.40	6.32	6.88	2.45	3.46
YETSD1260-123MT	12 ±20%	0.074	20.0	0.99	0.28	5.30	6.18	6.70	2.21	3.12
YETSD1260-153MT	15 ±20%	0.085	18.0	0.99	0.32	4.60	5.30	5.80	2.06	2.92
YETSD1260-183MT	18 ±20%	0.097	16.0	0.99	0.40	4.50	5.22	5.68	1.93	2.73
YETSD1260-223MT	22 ±20%	0.116	15.0	0.98	0.67	4.00	4.62	5.02	1.76	2.49
YETSD1260-273MT	27 ±20%	0.124	13.0	0.99	0.50	3.60	4.14	4.50	1.70	2.41
YETSD1260-333MT	33 ±20%	0.134	12.4	0.99	0.65	3.30	3.80	4.14	1.64	2.32
YETSD1260-393MT	39 ±20%	0.142	12.0	0.99	1.09	3.00	3.48	3.82	1.59	2.25
YETSD1260-473MT	47 ±20%	0.174	11.6	0.99	0.80	2.70	3.12	3.40	1.44	2.03
YETSD1260-563MT	56 ±20%	0.198	10.5	0.99	0.75	2.50	2.90	3.14	1.35	1.91
YETSD1260-683MT	68 ±20%	0.216	10.0	>0.99	0.57	2.30	2.66	2.88	1.29	1.83
YETSD1260-823MT	82 ±20%	0.274	8.6	0.99	1.52	2.10	2.40	2.60	1.15	1.62
YETSD1260-104MT	100 ±20%	0.322	7.8	0.99	1.41	1.90	2.18	2.38	1.06	1.50
YETSD1260-124KT	120 ±10%	0.418	6.8	0.99	1.34	1.60	1.84	2.04	0.93	1.31
YETSD1260-154KT	150 ±10%	0.476	6.4	0.99	1.52	1.50	1.76	1.92	0.87	1.23
YETSD1260-184KT	180 ±10%	0.536	6.1	0.99	1.80	1.40	1.64	1.78	0.82	1.16
YETSD1260-224KT	220 ±10%	0.691	5.5	>0.99	1.60	1.30	1.48	1.60	0.72	1.02
YETSD1260-274KT	270 ±10%	0.806	4.3	>0.99	2.23	1.10	1.30	1.40	0.67	0.95
YETSD1260-334KT	330 ±10%	1.09	4.0	>0.99	2.39	1.00	1.16	1.26	0.57	0.81
YETSD1260-394KT	390 ±10%	1.20	3.6	>0.99	3.72	0.950	1.11	1.23	0.55	0.77
YETSD1260-474KT	470 ±10%	1.59	3.0	>0.99	2.89	0.900	0.994	1.09	0.48	0.67
YETSD1260-564KT	560 ±10%	1.81	2.8	>0.99	2.55	0.800	0.908	0.948	0.45	0.63
YETSD1260-684KT	680 ±10%	2.06	2.6	>0.99	5.76	0.700	0.804	0.874	0.42	0.59
YETSD1260-824KT	820 ±10%	2.65	2.5	>0.99	2.86	0.640	0.732	0.802	0.37	0.52
YETSD1260-105KT	1000 ±10%	3.06	2.4	>0.99	4.32	0.590	0.674	0.728	0.34	0.49

- **Core material** Ferrite
- **Ambient temperature** –40°C to +125°C with Irms current
- **Maximum part temperature** +165°C (ambient + temp rise)
- **Storage temperature** Component: –40°C to +165°C. Tape and reel packaging: –40°C to +80°C
- **Resistance to soldering heat** Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

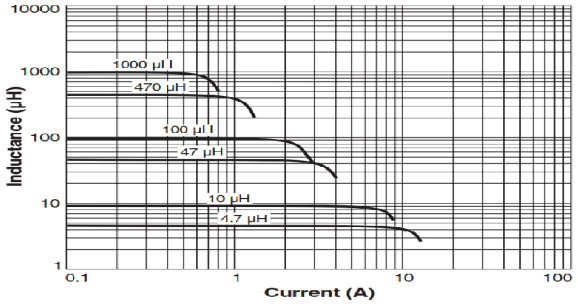
1. When ordering, please specify packaging codes:

YET1260-105KT

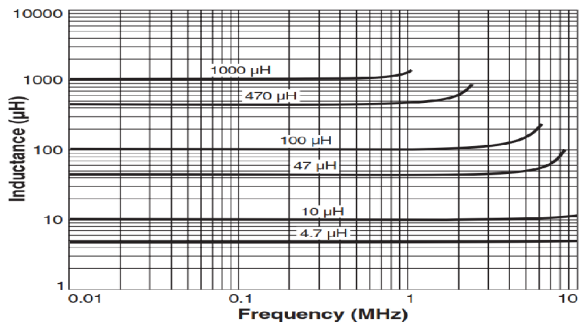
Packaging: **T** = 13″ machine-ready reel. EIA-481 embossed plastic tape (500 parts per full reel).
B = In bulk or less than full reel.

2. Inductance shown for each winding, measured at 100 kHz, 0.1 Vrms, 0 Adc on an HP 4284A LCR meter or equivalent.
3. DCR is for each winding.
4. SRF measured using an HP 4191A or equivalent.
5. Leakage inductance is for L1 and is measured with L2 shorted.
6. Isat, at which the inductance drops the specified amount from its value without current.
7. Irms is for that causes a 40°C temperature rise from 25°C ambient.
8. Electrical specifications at 25°C.

Typical L vs Current



Typical L vs Frequency



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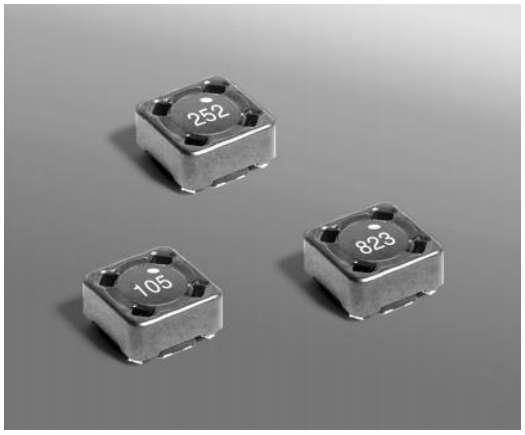
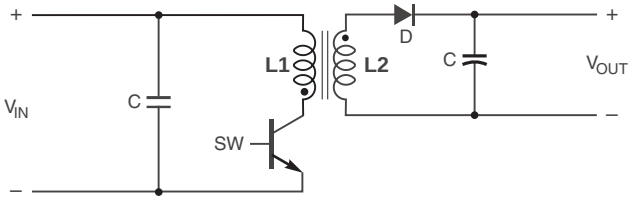
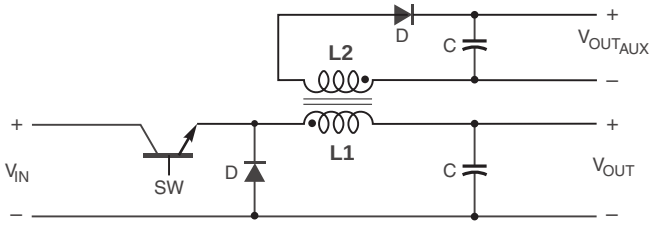
Shielded Coupled Inductors



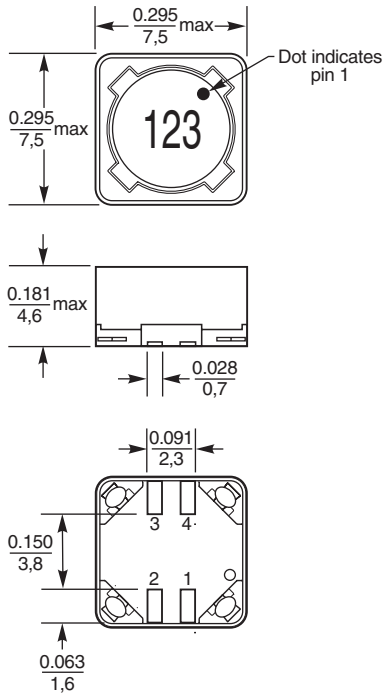
- Factor of coupling (k≥0.97)
- Hipot 200 V between windings.
- Use in a variety of circuits including flyback, multi-output buck.
- They provide high inductance, high efficiency and excellent current handling in a rugged, low cost part.
- Can also be used as two single inductors connected in series or parallel, as a common mode choke or as a 1 : 1 transformer.
- ROHS compliant.



Typical Flyback Converter

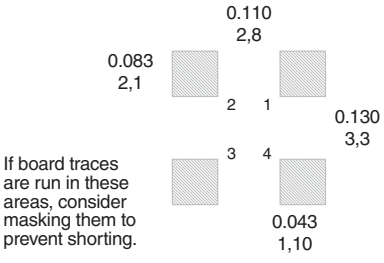


Typical Buck Converter with auxiliary output



Dimensions are in $\frac{\text{inches}}{\text{mm}}$

Recommended Land Pattern



If board traces are run in these areas, consider masking them to prevent shorting.

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Shielded Coupled Inductors

Part number	Inductance ±20% (µH)	DCR max (Ohms)	SRF typ (MHz)	Coupling coefficient typ	Leakage L typ (µH)	Isat (A) 10% drop	Isat (A) 20% drop	Isat (A) 30% drop	Irms (A) both windings	Irms (A) one winding
YETSD7342-252MT	2.5	0.033	55	0.97	0.14	6.0	6.2	6.3	2.17	3.06
YETSD7342-332MT	3.3	0.037	43	0.99	0.09	5.2	5.3	5.4	2.05	2.89
YETSD7342-472MT	4.7	0.051	35	0.99	0.11	4.1	4.3	4.6	1.74	2.46
YETSD7342-562MT	5.6	0.063	32	0.99	0.09	3.9	4.1	4.2	1.57	2.22
YETSD7342-682MT	6.8	0.070	30	0.99	0.14	3.7	3.8	3.9	1.49	2.10
YETSD7342-822MT	8.2	0.075	27	0.98	0.25	3.3	3.4	3.5	1.44	2.03
YETSD7342-103MT	10	0.100	22	0.98	0.30	2.8	2.9	3.0	1.24	1.76
YETSD7342-123MT	12	0.120	20	0.98	0.36	2.5	2.6	2.7	1.14	1.61
YETSD7342-153MT	15	0.130	18	0.98	0.49	2.2	2.3	2.4	1.09	1.54
YETSD7342-183MT	18	0.170	15	>0.99	0.16	2.0	2.2	2.3	0.95	1.35
YETSD7342-223MT	22	0.220	13.5	>0.99	0.20	1.9	2.0	2.1	0.84	1.19
YETSD7342-273MT	27	0.250	12.0	>0.99	0.20	1.7	1.8	1.9	0.79	1.11
YETSD7342-333MT	33	0.270	11.0	>0.99	0.15	1.5	1.6	1.7	0.76	1.07
YETSD7342-393MT	39	0.380	10.0	0.99	0.70	1.3	1.4	1.5	0.64	0.90
YETSD7342-473MT	47	0.420	9.5	>0.99	0.30	1.2	1.3	1.4	0.61	0.86
YETSD7342-563MT	56	0.460	8.7	>0.99	0.51	1.1	1.2	1.3	0.58	0.82
YETSD7342-683MT	68	0.600	7.3	>0.99	0.51	1.0	1.1	1.2	0.51	0.72
YETSD7342-823MT	82	0.680	6.2	0.99	1.17	0.90	1.00	1.1	0.48	0.67
YETSD7342-104MT	100	0.770	5.5	>0.99	0.96	0.80	0.92	0.98	0.45	0.63
YETSD7342-124MT	120	1.03	4.5	>0.99	0.61	0.70	0.80	0.90	0.39	0.55
YETSD7342-154MT	150	1.35	4.0	>0.99	0.54	0.65	0.76	0.80	0.34	0.48
YETSD7342-224MT	220	1.72	3.5	>0.99	1.43	0.59	0.62	0.66	0.30	0.42
YETSD7342-334MT	330	2.70	3.0	>0.99	1.65	0.49	0.52	0.54	0.24	0.34
YETSD7342-474MT	470	4.00	2.6	0.99	5.50	0.41	0.43	0.46	0.20	0.28

1. When ordering, please specify packaging codes:

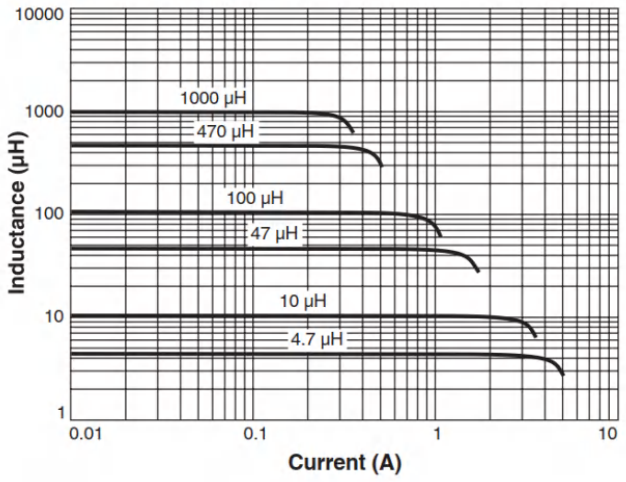
YETSD7342-105MT

Packaging: **T** = 13″ machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (1000 parts per full reel).
B = In bulk or less than full reel.

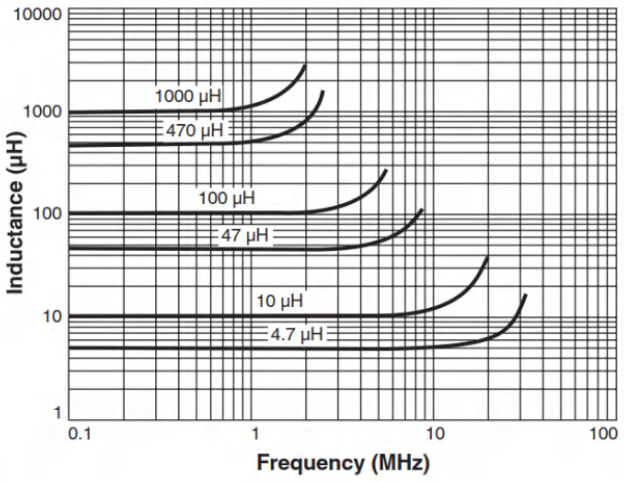
2. Inductance shown for each winding, measured at 100 kHz, 0.1 Vrms, 0 Adc on an HP 4284A LCR meter or equivalent.
3. DCR is for each winding.
4. SRF measured using an HP 4191A or equivalent.
5. Leakage inductance is for L1 and is measured with L2 shorted.
6. Irms is for that causes a 40°C temperature rise from 25°C ambient when applied to each winding simultaneously .

- Core material Ferrite
- Ambient temperature –40°C to +85°C with (40°C rise) Irms current. • Maximum part temperature +125°C (ambient + temp rise).
- Storage temperature Component: –40°C to +125°C. Tape and reel packaging: –40°C to +80°C
- Winding to winding isolation 200 Vrms, one minute
- Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Typical L vs Current



Typical L vs Frequency



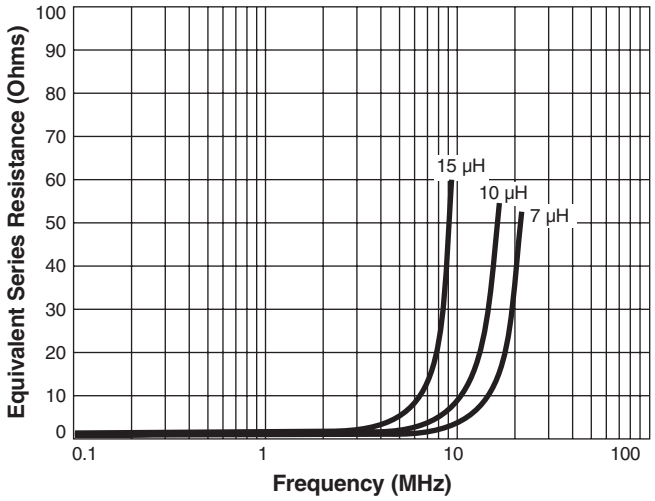
This product is not authorized for use in any application related to safety.
Specification subject to change without notice.Please check web site for latest information.

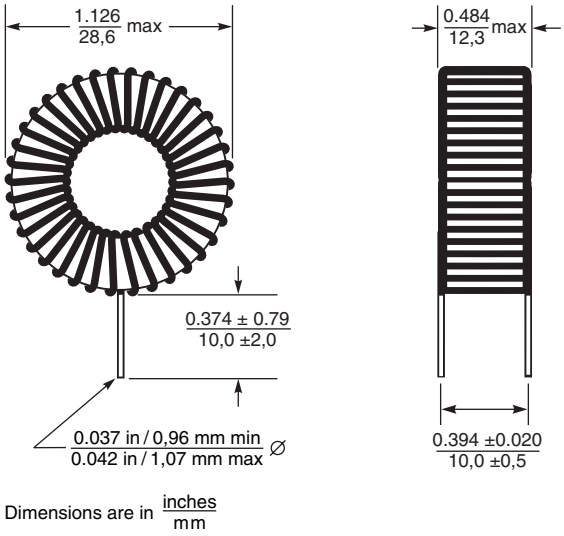
TOROIDAL FILTER INDUCTOR

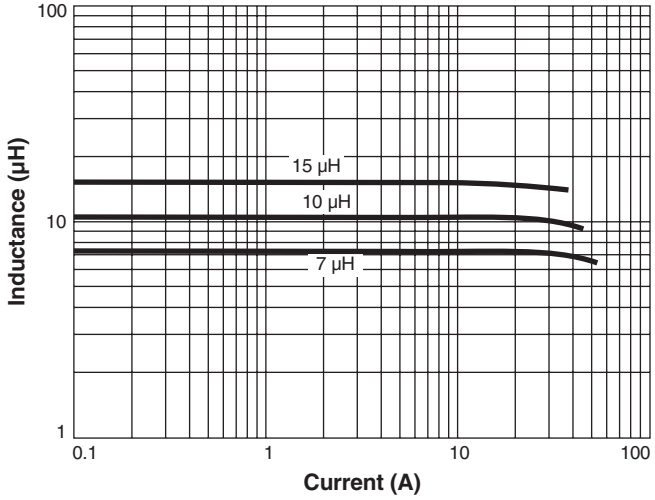
- **Core material** Powder core or Ferrite core
- **Environmental** RoHS compliant, halogen free
- **Ambient temperature** –40°C to +125°C with (40°C rise) Irms current.
- **Maximum part temperature** +165°C (ambient + temp rise).
- **Storage temperature** Component: –40°C to +165°C;Tray packaging: –40°C to +80°C

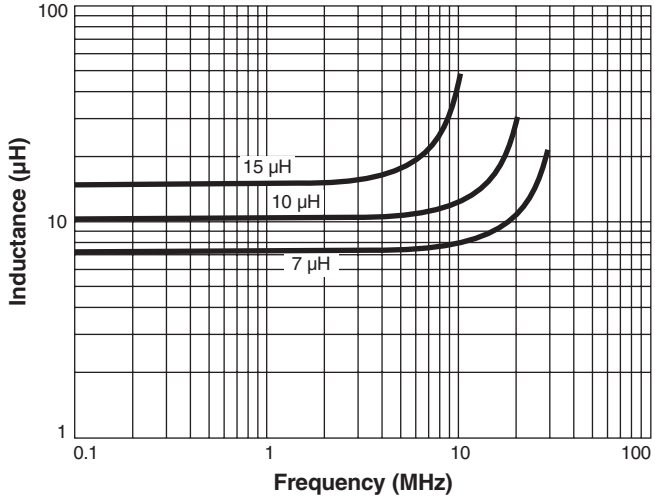
Part number	Inductance ±10% (µH)	DCR max (mOhms)	Isat (A)	Irms (A) 20°C rise	Irms (A) 40°C rise
YETNPS09060	17.2	48.0	12.0	18	22

1. Inductance measured at 10 kHz, 0.1 Vrms, 0 Adc using an HP 4132 impedance analyzer or equivalent.
2. Isat:this current at 25°C that causes the specified inductance drop from its value without current.
3. Irms:this current causes the specified temperature rise from 25°C ambient.
4. Electrical specifications at 25°C.









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