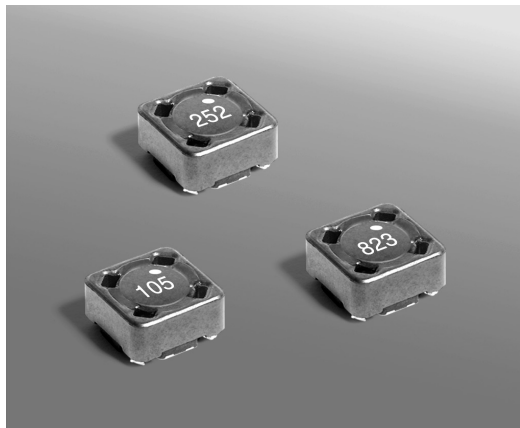
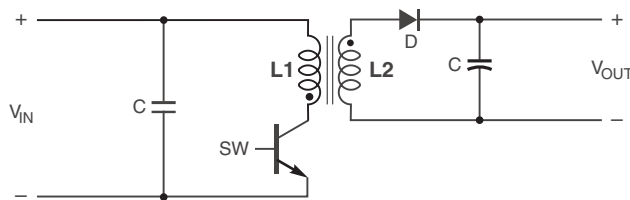


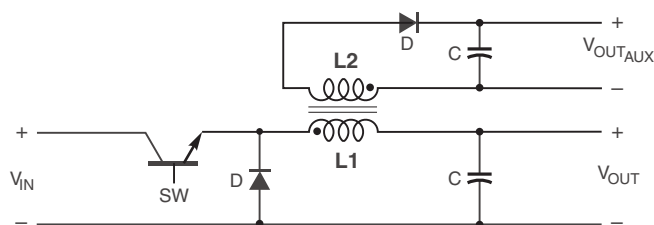
Shielded Coupled Inductors



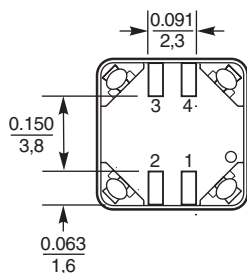
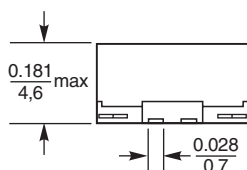
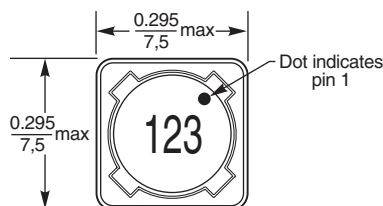
- Factor of coupling ($k \geq 0.97$)
- Hipot 200V between windings.
- Use in a variety of circuits including flyback, multi-output buck.
- They provide high inductance, high efficiency and excellent current handling in a rugged, low cost part.
- Can also be used as two single inductors connected in series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



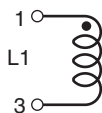
Typical Flyback Converter



Typical Buck Converter with auxiliary output

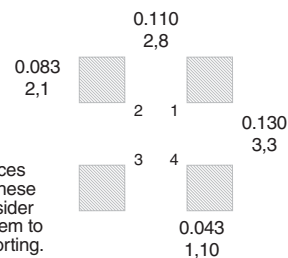


Dimensions are in $\frac{\text{inches}}{\text{mm}}$



2
L2
4

Recommended Land Pattern



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

Shielded Coupled Inductors

Part number	Inductance ±20% (μH)	DCR max (Ohms)	SRF typ (MHz)	Coupling coefficient typ	Leakage L typ (μH)	Isat (A)			Irms (A)	
						10% drop	20% drop	30% drop	both windings	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.

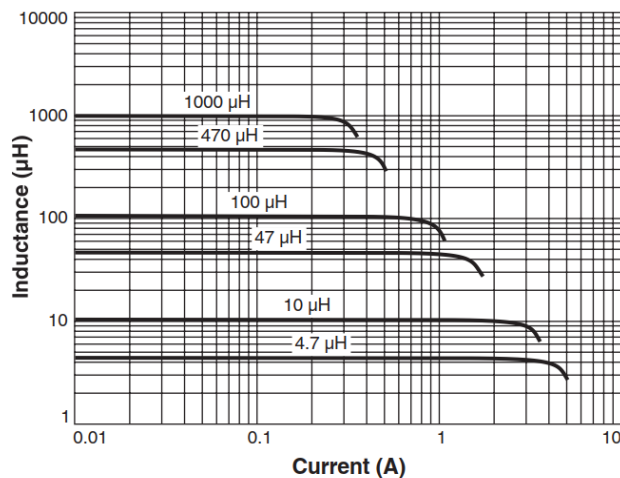
- Inductance shown for each winding, measured at 100 kHz, 0.1 Vrms, 0 A dc on an HP 4284A LCR meter or equivalent.
- DCR is for each winding.
- SRF measured using an HP 4191A or equivalent.

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

