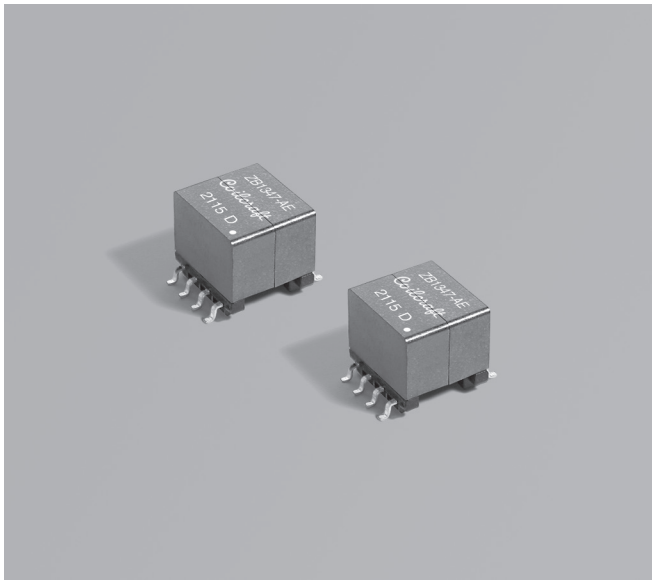
NEW!

RoHS/ REACH COMPLIANT

Halogen Free

AEC Q200 +125°C

Isolated Buck Transformer



- Designed for bidirectional disconnect board EVAL_BDPS_DD_TOLL from Infineon
- Optimized for 300 – 750 kHz with 5 V input
- Suitable for telecom servers, service robots, energy storage and similar industrial applications
- AEC-Q200 Qualified
- Versatile design also provides for use in Flyback topologies

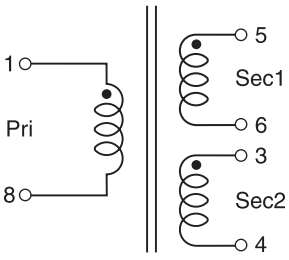
Core material Ferrite
Terminations RoHS tin-silver-copper over tin over nickel over phos bronze. Other terminations available at additional cost.
Weight 4.0 – 4.3 g
Ambient temperature –40°C to +125°C
Max Part Temperature +165°C (ambient + temperature rise)
Storage temperature Component: –40°C to +125°C
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
Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)
Packaging 200/13″ reel Plastic tape: 32 mm wide, 0.5 mm thick, 24 mm pocket spacing, 11.2 mm pocket depth
PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

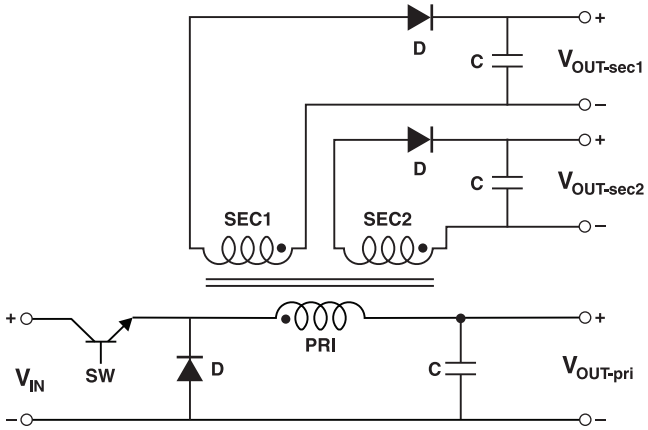
Part number[1]	L at 0 A[2] ±10% (µH)	Isat[3] (A)	Leakage inductance max (µH)[4]	DCR max (Ohms) pri	sec1	sec2	Turns ratio pri : sec1 : sec2	Isolation[5] (Vrms)	Power (W)	Output[6]
ZB1347-AED	135	1.5	0.60	0.268	3.60	2.90	1 : 2 : 2	1500	2.4	12 V, 0.2 A

1. **Packaging:** **D** = 13″ machine-ready reel. EIA-481 embossed plastic tape (200 parts per reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer ($25 charge).
2. Inductance is for the primary, measured at 500 kHz, 0.1 Vrms, 0 Adc.
3. DC current that causes the primary inductance drop 30% from its value without current. Click for temperature derating information.
4. Leakage Inductance is for the primary, measured with secondary windings shorted together.
5. 1500 Vrms, one minute isolation (hipot) from primary to secondary.
6. 12 V, 0.2 A output is for secondary 1 and secondary 2 windings.
7. Electrical specifications at 25°C.

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

Schematic





Typical Iso-Buck Converter with dual isolated outputs

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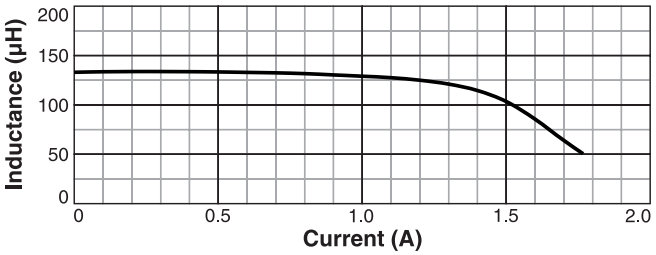
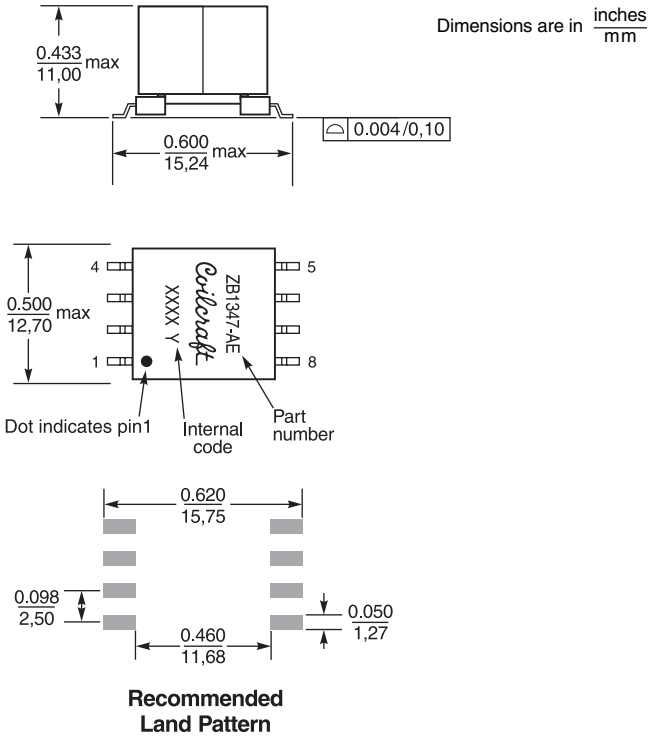
Isolated Buck Transformer – ZB1347-AE

Typical L vs Current



Dimensions



Recommended Land Pattern

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