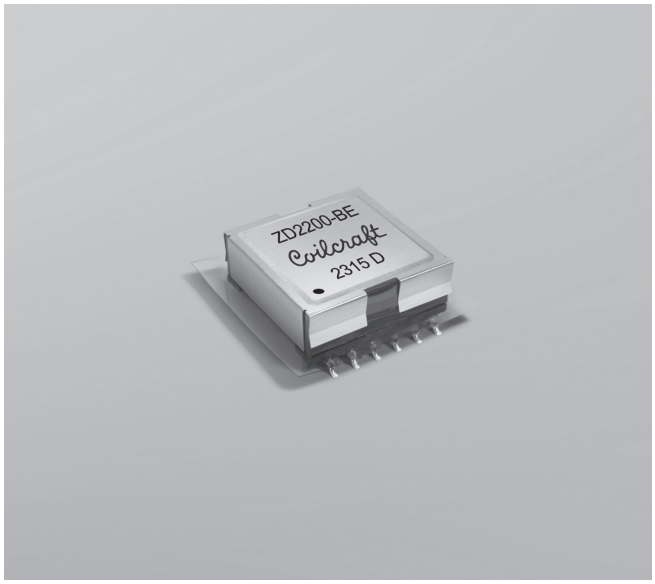
NEW!

RoHS/ REACH COMPLIANT

Halogen Free

AEC Q200 +105°C

Flyback Transformer



- Optimized for UCC28C56EVM power supply for EV/HEV automotive power trains for Texas Instruments
- High efficiency Flyback transformers operate over the wide input voltage range from 40 – 1000 V
- 4700 Vrms, one minute isolation (hipot) pri and aux to sec
- 10 mm creepage and clearance, material group IIIa[7]
- AEC-Q200 qualified

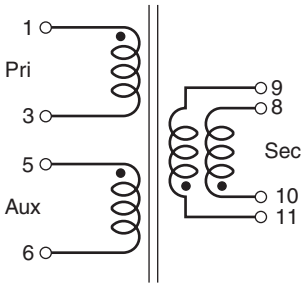
Core material Ferrite
Terminations RoHS tin-silver-copper over tin over nickel over phos bronze.
Weight 35.5 g
Ambient temperature –40°C to +105°C
Maximum part temperature +155°C (ambient + temp rise).
Storage temperature Component: –40°C to +155°C. Tray packaging: –40°C to +80°C
Resistance to soldering 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 16 per tray
PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

Part number	Inductance at 0 Adc[1] ±10% (µH)	Inductance at 1.5 Adc[2] min (µH)	Isat[3] (A)	DCR max (Ohms) pri	sec	aux	Leakage Inductance[4] max (µH)	Turns ratio pri : sec : aux	Isolation[5] (Vrms)	Output[6]
ZD2200-BE	550	495	2.5	0.44	0.010	0.12	6.0	1 : 0.098 : 0.118	4700	15 V, 2.7 A

1. Inductance is for the primary, measured at 40 kHz, 0.1 Vrms, 0 Adc.
2. Peak primary current drawn at minimum input voltage.
3. DC current that causes an inductance drop of 30% (typ) from its value without current.
4. Leakage inductance is for the primary winding with all other windings shorted.
5. 4700 Vrms, isolation (hipot) measured between Pri/Aux and Sec windings for one minute.
6. 15 V, 2.7 A is for the Sec winding; 20 V, 35 mA is for the Aux winding.
7. The insulation class may be Functional, Basic, or Reinforced, depending on the application variables such as working voltage, pollution degree, OVC, and Altitude. Please contact us for full details.
8. Electrical specifications at 25°C.

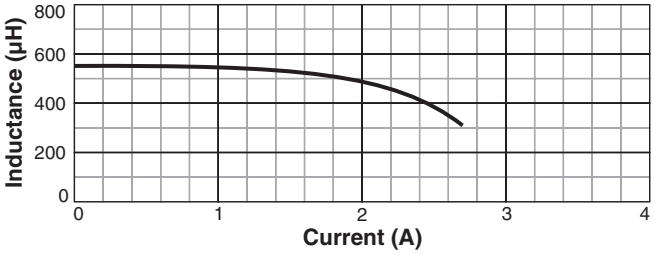
Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

Schematic



Connect pins 11 to 10 and pins 9 to 8 on PC board.

Typical L vs Current



Coilcraft
www.coilcraft.com

US +1-847-639-6400 sales@coilcraft.com
UK +44-1236-730595 sales@coilcraft-europe.com
Taiwan +886-2-2264 3646 sales@coilcraft.com.tw
China +86-21-6218 8074 sales@coilcraft.com.cn
Singapore + 65-6484 8412 sales@coilcraft.com.sg

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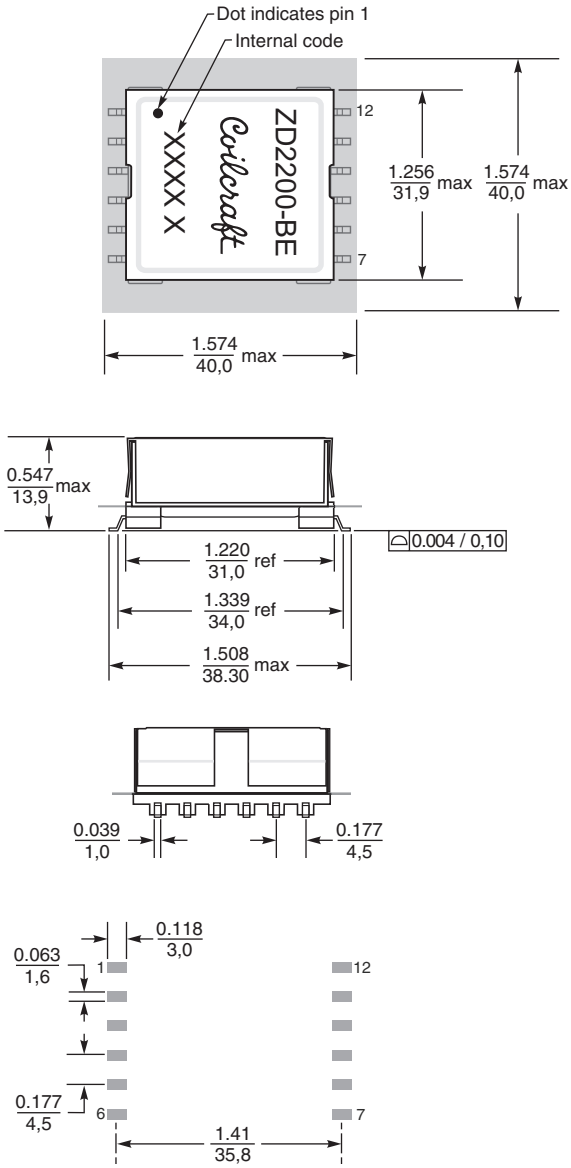

Recommended Land Pattern

Dimensions are in inches / mm

Coilcraft
www.coilcraft.com

US +1-847-639-6400 sales@coilcraft.com
UK +44-1236-730595 sales@coilcraft-europe.com
Taiwan +886-2-2264 3646 sales@coilcraft.com.tw
China +86-21-6218 8074 sales@coilcraft.com.cn
Singapore + 65-6484 8412 sales@coilcraft.com.sg

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