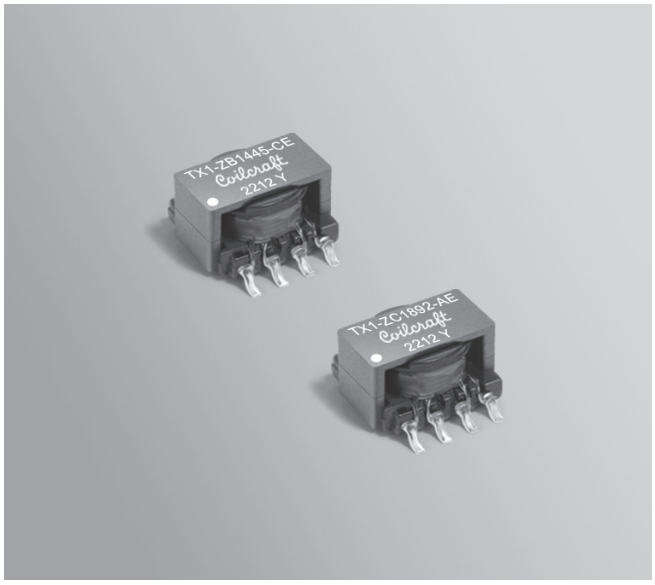
PRELIMINARY

RoHS/ REACH COMPLIANT

Halogen Free

Isolation Transformers



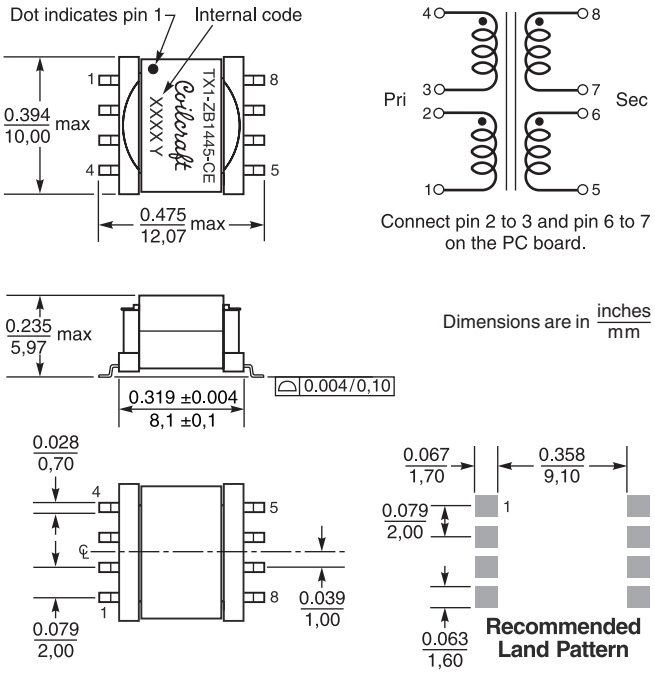
- Optimized for Texas Instrument SN6507 transformer driver
- Low profile and center-tapped push-pull transformers for isolated power supply
- High Frequency Operation up to 1 MHz
- 2500 Vrms, one minute high isolation (hipot) winding to winding

Core material Ferrite
Terminations RoHS tin-silver over tin over nickel over phos bronze. Other terminations available at additional cost.
Weight 0.91 – 1.1 g
Ambient temperature –40°C to +125°C
Maximum part temperature +165°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
Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)
Packaging 600/13″ reel Plastic tape: 24 mm wide, 0.37 mm thick, 16 mm pocket spacing, 6.1 mm pocket dept
PCB washing Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf

Part number[1]	Pri / sec voltage	Inductance[2] min (µH)	DCR max (Ohms)[3] pri	DCR max (Ohms)[3] sec	Leakage inductance[4] max (µH)	Volt-time product[5] (V-µsec)	Power[6] (W)	Turns ratio pri : sec
TX1-ZB1445-CED	12 V to 15 V	99.7	0.087	0.135	0.25	22	7.5	1 : 1.40
TX1-ZC1892-AED	12 V to 30 V	99.7	0.102	0.240	1.0	22	15.0	1 : 2.80
TX1-ZB1459-BED	24 V to 15 V	196	0.115	0.098	1.0	30	7.5	1 : 0.71
TX1-ZC1891-AED	24 V to 30 V	196	0.134	0.163	1.0	30	15.0	1 : 1.43

1. **Packaging: D** = 13″ machine ready reel. EIA-481 embossed plastic tape (600 per full 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 between pins 4 and 1 with pins 2 and 3 connected at 1 MHz, 0.1 Vrms, 0 Adc.
3. DCR is per winding.
4. Leakage inductance is for the primary with both windings connected in series and with the secondary windings shorted.
5. Volt-time product is for the primary, between pins 4 and 1 with pins 2 and 3 connected.
6. Calculated Output Power will vary depending upon application.
7. Electrical specifications at 25°C.

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



Parts shown are preproduction products available for evaluation only.

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

Coilcraft®
www.coilcraft.com

Document 1722-1 Revised 04/05/22