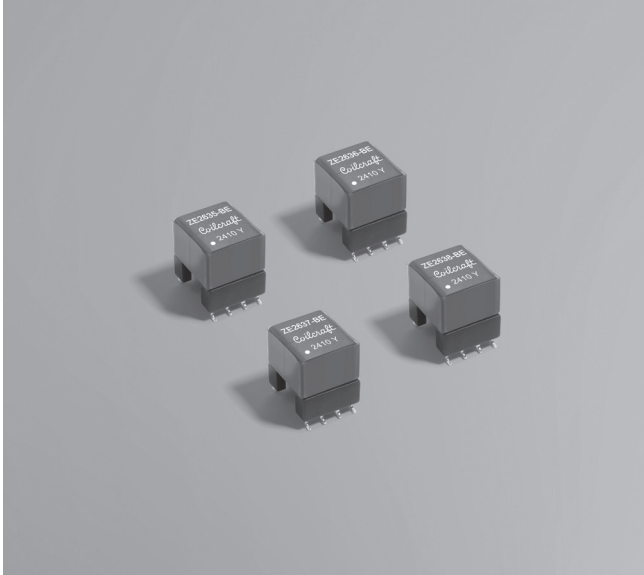


NEW!

High Isolation LLC Transformers



- Designed for use with the UCC25800-Q1 from Texas Instruments for isolated gate driver bias supply
- LLC transformers with low interwinding capacitance
- 5656 VDC / 4000 Vrms, one minute isolation (hipot) between primary and secondary
- 7 mm creepage and clearance Material Group 1 (CTI > 600)⁸
- AEC-Q200 qualified

Core material Ferrite

Terminations RoHS tin-silver over tin over nickel over phos bronze.

Weight 2.4 – 2.7 g

Max part temperature +165°C

Ambient temperature -40°C to +125°C

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, 20 mm pocket spacing, 12.3 mm pocket depth

PCB washing Tested with pure water or alcohol only. For other solvents, see [Doc787_PCB_Washing.pdf](#)

Part number ¹	L at 0 A ² ±35% (µH)	DCR max (Ohms)		Irms ³ (A)		Leakage ⁴ L max (µH)	Turns ratio pri : sec	Capacitance ⁵ max (pF)	Isolation ⁶ (VDC / Vrms)	Volt-time ⁷ product (V-µsec)
		pri	sec	pri	sec					
ZE2635-BED	100	0.075	0.153	1.56	0.78	2.28	1 : 2	2.43	5656 / 4000	21
ZE2636-BED	100	0.075	0.097	1.43	1.10	2.42	1 : 1.3	1.78	5656 / 4000	21
ZE2637-BED	100	0.075	0.129	1.51	0.89	2.36	1 : 1.7	2.27	5656 / 4000	21
ZE2638-BED	100	0.075	0.027	1.07	2.68	2.60	1 : 0.40	1.61	5656 / 4000	21

- Packaging:** D = 13" machine-ready reel. EIA-481 embossed plastic tape (200 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).
- Inductance is for the primary, measured at 333 kHz, 0.1 Vrms, 0 Adc
- Currents that cause a 40°C temperature rise from 25°C ambient when applied to the primary and secondary windings simultaneously.
- Leakage Inductance is for the primary, measured at 333 kHz, 0.1 Vrms with secondary windings shorted together.
- Interwinding capacitance from primary to secondary. It is measured from pin 3 to 7 with pin 2 and 6 open at 333 kHz, 0.1 Vrms.
- 5656 VDC / 4000 Vrms, one minute isolation (hipot) measured between primary and secondary.
- Volt-time product is for the primary, between pins 2 and 3.
- Insulation level may be Functional, Basic, or Reinforced depending on application variables such as working voltage, pollution degree, OVC, and altitude. Please contact [Coilcraft](#) for full details.
- Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

Designed per IEC 61558-1 to meet the following requirements.
Please contact Tech_Support@coilcraft.com for questions about suitability for use in other application conditions.

Reinforced insulation example	Basic insulation example
Working voltage 400 Vrms	Working voltage 800 Vrms
Altitude 3000 m	Altitude 3000 m
Overvoltage category II	Overvoltage category II
Pollution degree 2	Pollution degree 2

7 mm creepage and clearance between primary and secondary windings with Material Group I.



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This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.



ZE263x Series

Dimensions

