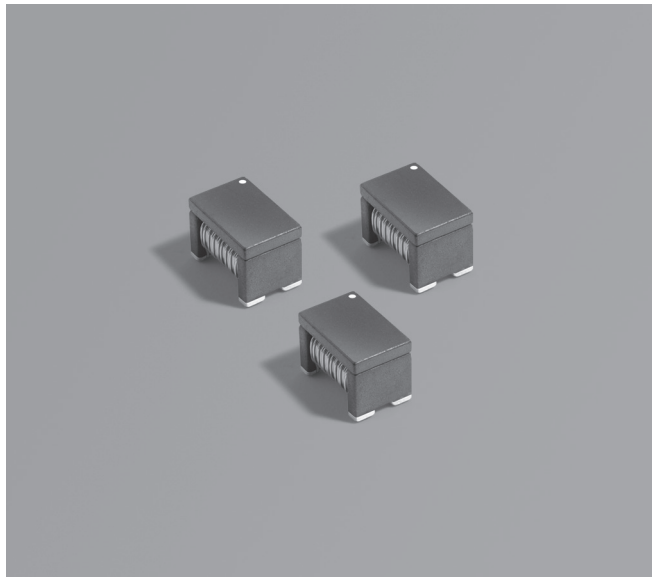


NEW!


Pulse Transformer

For Isolated Gate Driver Bias Supply



- Optimized for QFN AHV85003/043 chipset by Allegro Micro-Systems
- Ideal for isolated power supplies in data center, automotive OBC, and industrial applications
- Low interwinding capacitance to minimize EMI and achieve high CMTI
- AEC-Q200 qualified

Core material Ferrite

Terminations RoHS compliant tin over nickel over silver glass frit.

Weight 0.53 – 0.54 g

Ambient temperature –40°C to +125°C

Max part temperature +140°C

Storage temperature Component: –40°C to +140°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 350/7" reel; 1500/13" reel Plastic tape: 16 mm wide, 0.4 mm thick, 8 mm pocket spacing, 5.5 mm pocket depth

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

Part number ¹	Turns ratio	Inductance ² ±25% (μH)		DCR max ³ (Ohms)		Leakage L ⁴ ±25% (μH)	Isolation ⁵ (Vrms / VDC)	Cap ⁶ max (pF)
	Pri : Sec	Pri	Sec	Pri	Sec			
ZG3504-BEC	1 : 3	7.2	65.2	0.11	0.32	0.14	2800 / 4000	4.0

1. When ordering, please specify **packaging** code:

ZG3504-BEC

Packaging: **C** = 7" machine-ready reel. EIA-481 embossed plastic tape (350 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).

D = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (1500 parts per full reel).

- Inductance measured at 1 MHz, 0.1 Vrms, 0 ADC on an Agilent 4263B (or equivalent).
- DCR is measured on a Keithley 580 Micro-ohmmeter (or equivalent).
- Leakage Inductance LL is measured at 1 MHz, 0.1 Vrms on an Agilent 4263B (or equivalent) with pins 3, 4 shorted.
- 2800 Vrms, 4000 VDC; one minute isolation (hipot) measured between primary and secondary.
- Interwinding capacitance is measured from primary to secondary at 250 KHz, 0.1 Vrms.
- Electrical specifications at 25°C.

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

Designed to meet the following requirements. Please contact Tech_support@coilcraft.com for questions about suitability for use in other application conditions.

Example 1*	Example 2*
Reinforced insulation	Basic insulation
Working voltage 240 V	Working voltage 600 V
Altitude 5000 m	Altitude 5000 m
Overvoltage category II	Overvoltage category II
Pollution degree 2	Pollution degree 2

Example 3
Basic insulation
Working voltage 490 V
Altitude 5000 m
Overvoltage category II
Pollution degree 2

The transformer contains 7 mm creepage and 4.9 mm clearance between primary and secondary windings with Material Group IIIa (175 ≤ CTI < 400).

*** For examples 1 and 2, Material Group I PCB is needed. If using Material Group IIIa or IIIb PCB, a groove is needed between primary and secondary pads in order to maintain the transformer's 7 mm creepage when mounted.**



ZG3504-BE Series

Dimensions

