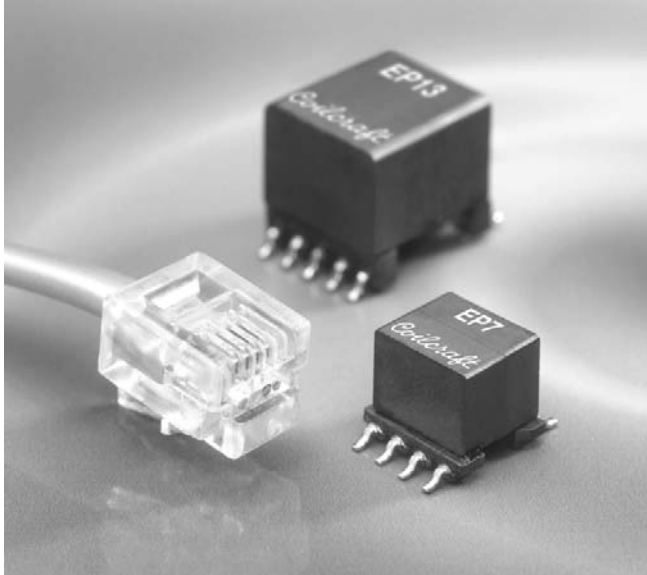


# Ultra-Small CO Driver Transformers



This product is not RoHS-compliant. Contact Coilcraft for current status or possible alternatives.

To meet the demand for even higher density DSLAM configurations, Coilcraft is introducing the industry's smallest Central Office magnetics.

These new line driver transformers come in an ultra-small EP7 package. Compared to conventional EP13 designs, they feature:

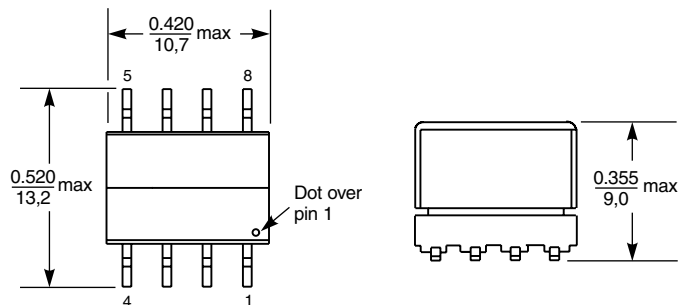
- 58% less volume (under 0.078 in<sup>3</sup>)
- 42% smaller footprint (just 0.22 in<sup>2</sup>)
- 30% lower height (less than 0.36 in)

These initial designs are suitable for a variety of chipsets. Coilcraft also welcomes the opportunity to customize transformers to meet specific requirements. Evaluation samples are typically available within two weeks.

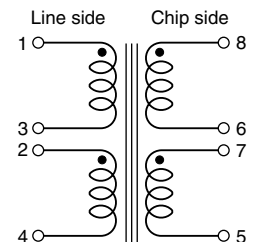
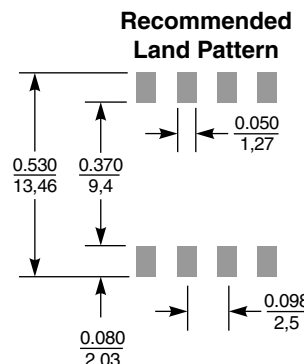
Part number	Style	Line side inductance (μH)	Leakage inductance max (μH)	DCR max (Ohms)		Dielectric strength (V)
				Chip side	Line side	
AS8886-B	SMD	1000 ± 6%	6.0	0.44 (8-6), 0.44 (7-5)	0.87 (1-3, 2-4)	1875
AS9006-A	SMD	400 ± 5%	5.0	0.23 (8-6), 0.27 (7-5)	0.80 (1-3, 2-4)	1875
AS9006-B	SMD	400 ± 5%	5.0	0.21 (8-6), 0.25 (7-5)	0.68 (1-3, 2-4)	1875
AS9015-A	SMD	474 ± 10%	6.0	0.58 (8-6), 0.75 (7-5)	0.94 (1-3, 2-4)	1875

Part number	Turns ratio line:chip	Capacitance max (pF)	Longitudinal balance (dB) min	THD typ (dB)	Designed to meet
AS8886-B	1.81 : 1	N/A	45 (30 kHz - 1.1 MHz)	-85 at 20 kHz	UL 1950
AS9006-A	1.80 : 1	40	60 (at 100 kHz)	-85 at 100 kHz	UL 1950
AS9006-B	1.90 : 1	40	60 (at 100 kHz)	-85 at 100 kHz	UL 1950
AS9015-A	1.41 : 1	35	45 (20 kHz - 1.1 MHz)	-92 at 20 kHz	UL 1950

1. All electrical specifications referenced to line side.
2. Operating temperature range -40° C to +85° C.
3. Electrical specifications at 25° C.



**Tape and reel:** 450/13" reel 24 mm tape width  
For packaging data see Tape and Reel Specifications section.



**Coilcraft**<sup>®</sup>

Specifications subject to change without notice.  
Please check our website for latest information.

Document 243 Revised 11/2/04

1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469  
E-mail [info@coilcraft.com](mailto:info@coilcraft.com) Web <http://www.coilcraft.com>