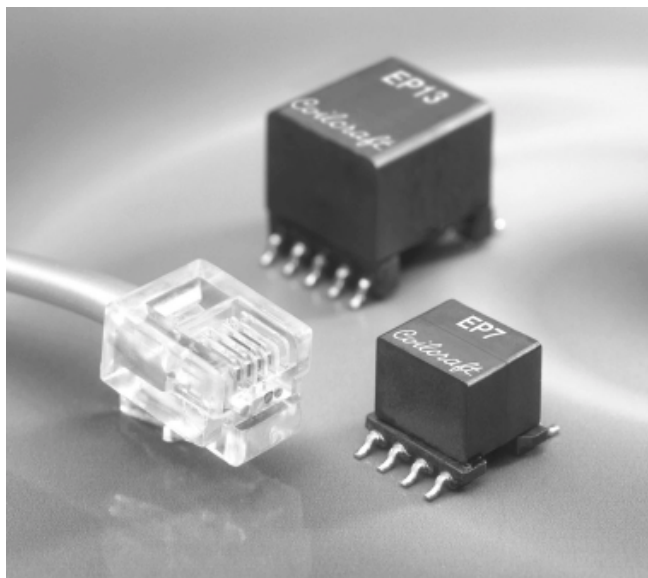


# Ultra-Small CO Driver Transformers



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:

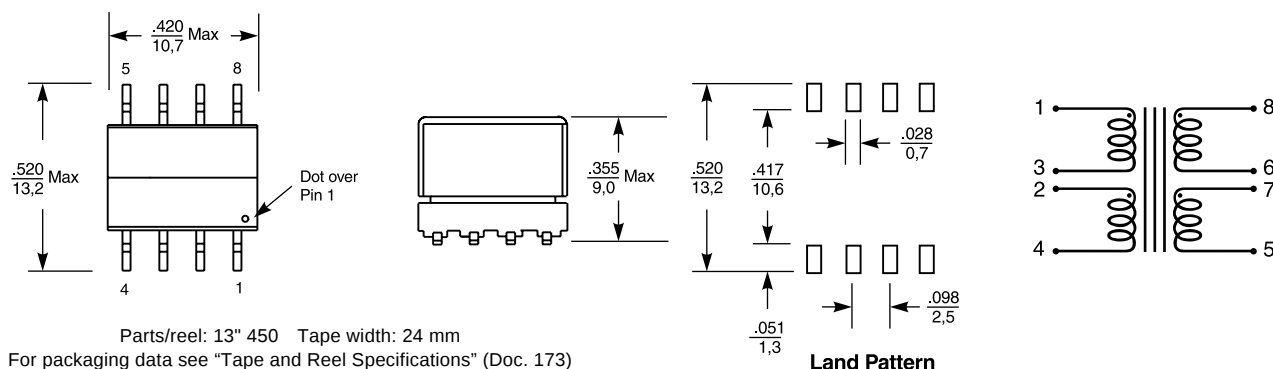
- 58% less volume (under .078 in<sup>3</sup>)
- 42% smaller footprint (just .22 in<sup>2</sup>)
- 30% lower height (less than .36 in)

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 (μH) max | DCR (Ω) max          |                | Dielectric strength (V) |
|-------------|-------|---------------------------|-----------------------------|----------------------|----------------|-------------------------|
|             |       |                           |                             | Chip side            | Line side      |                         |
| AS8886-B    | SMD   | 1000 ± 6%                 | 6.0                         | .44 (8-6), .44 (7-5) | .87 (1-3, 2-4) | 1875                    |
| AS9006-A    | SMD   | 400 ± 5%                  | 5.0                         | .23 (8-6), .27 (7-5) | .80 (1-3, 2-4) | 1875                    |
| AS9015-A    | SMD   | 474 ± 10%                 | 6.0                         | .58 (8-6), .75 (7-5) | .94 (1-3, 2-4) | 1875                    |

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



*Coilcraft*

Specifications subject to change without notice. Document 243 Revised 4/4/01

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