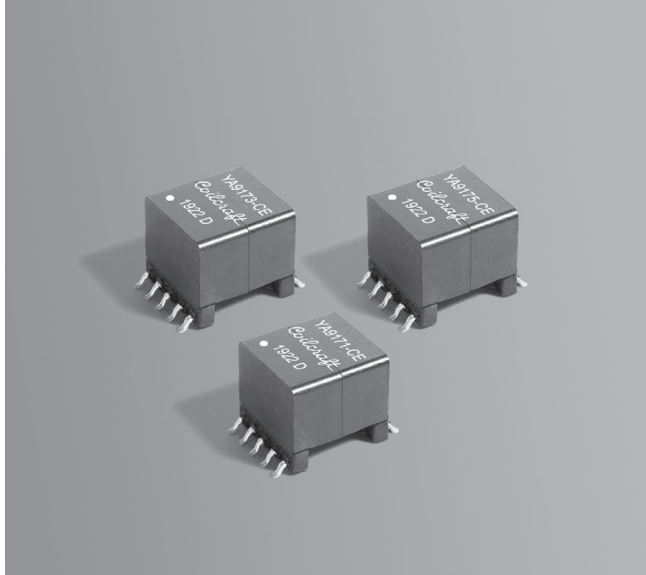


No-Opto Flyback Transformers



- Discontinuous conduction mode Flyback transformers
- Optimized for 100 – 125 kHz with 8 – 28 V or 18 – 60 V input
- 1500 Vrms, one minute isolation between primary and secondary

Core material Ferrite

Terminations RoHS tin-silver-copper over tin over nickel over phos bronze. Other terminations available at additional cost.

Weight 6.17 – 6.23 g

Ambient temperature –40°C to +85°C

Max Part Temperature +125°C (ambient + temperature 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)

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

| Part number ¹ | Inductance at 0 A ² ±10% (µH) | Isat ³ (A) | DCR max (Ohms) | | Leakage inductance max (µH) ⁴ | Turns ratio pri : sec | Isolation (Vrms) | Power (W) | Output |
|--------------------------|--|-----------------------|----------------|-------|--|-----------------------|------------------|-----------|------------|
| | | | pri | sec | | | | | |
| 8 – 28 V input | | | | | | | | | |
| YA9171-CED | 1.5 | 24 | 0.009 | 0.014 | 0.082 | 1 : 1.00 | 1500 | 24 | 5 V, 4.8 A |
| YA9172-CED | 1.5 | 24 | 0.009 | 0.062 | 0.068 | 1 : 2.28 | 1500 | 24 | 12 V, 2 A |
| YA9173-CED | 1.5 | 24 | 0.009 | 0.193 | 0.092 | 1 : 4.43 | 1500 | 24 | 24 V, 1 A |
| 18 – 60 V input | | | | | | | | | |
| YA9174-CED | 8.5 | 10 | 0.036 | 0.012 | 0.277 | 1 : 0.38 | 1500 | 24 | 5 V, 4.8 A |
| YA9175-CED | 8.5 | 10 | 0.036 | 0.053 | 0.300 | 1 : 0.92 | 1500 | 24 | 12 V, 2 A |
| YA9176-CED | 8.5 | 10 | 0.036 | 0.158 | 0.197 | 1 : 1.77 | 1500 | 24 | 24 V, 1 A |

1. **Packaging:** D = 13" machine-ready reel. EIA-481 embossed plastic tape (175 parts 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 at 100 kHz, 0.1 Vrms, 0 Adc.

3. Minimum inductance for the primary, measured at 125 kHz, 0.1 Vrms.

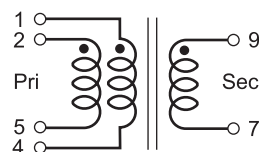
4. Leakage Inductance is for the primary, measured with secondary windings shorted together.

5. Electrical specifications at 25°C.

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

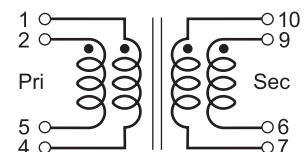
Schematics

YA9172, YA9173,
YA9175, YA9176



*Connect pin 1 to 2 and pin 4 to 5 on the PC board

YA9171, YA9174



*Connect pin 1 to 2, 4 to 5, 6 to 7, and pin 9 to 10 on the PC board



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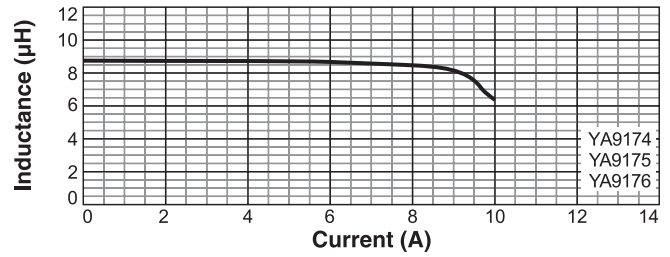
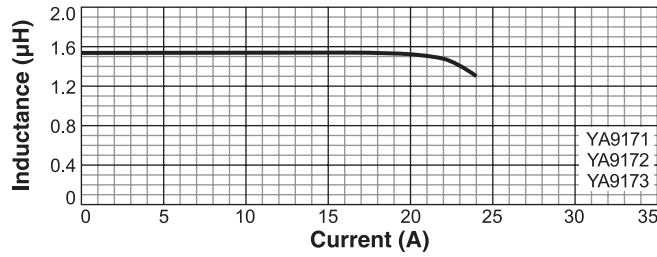
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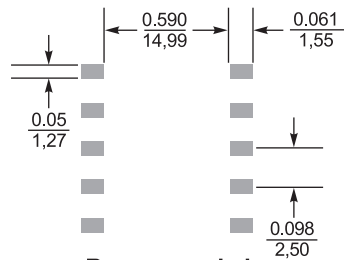
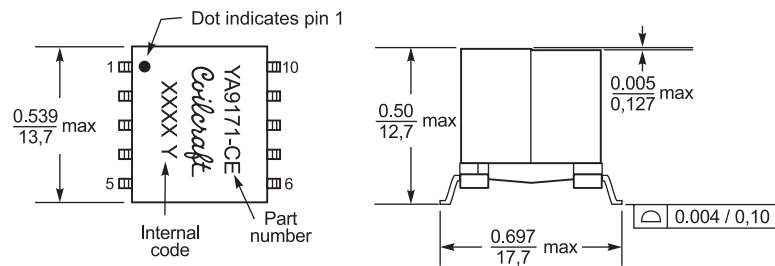


No-opto Flyback Transformers

L vs Current



Dimensions



Recommended

Dimensions are in $\frac{\text{inches}}{\text{mm}}$

Packaging 175/13" reel Plastic tape: 32 mm wide, 0.60 mm thick, 28 mm pocket spacing, 13.4 mm pocket depth



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