



SMT Planar Transformer

Resonant transformer
up to 50 Watts



- Designed for 50 W interleaved LLC converter development board EV84C64A from Microchip
- New planar transformer design, higher power density and lower profile vs. the wire wound type
- Operates up to 1000 kHz, with 38 – 42 V DC input voltage

Core material Ferrite

Terminations RoHS compliant matte tin over nickel over brass

Weight 11.44 g

Ambient temperature –40°C to +125°C

Maximum part temperature +145°C (ambient + temp 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)

Packaging 36 per tray

PCB washing Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf

Part number ¹	Primary inductance ² ±10% (µH)	Leakage inductance ³ max (µH)	Turn ratio Pri : Sec	DCR max (mOhms)		Volt-time product typ ⁵ (Vµsec)	Isolation voltage ⁶ (Vrms)
				Pri ⁴	Sec		
YA9215-ALD	3.2	0.105	4 : 1	7.35	0.65	75	500

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

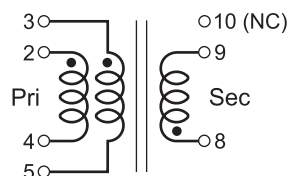
YA9215-ALD

Packaging: Blank In trays, 36 per tray

D = Optional tape and reel (additional cost). Factory order only, not stocked. 13" machine-ready reel. EIA-481 embossed plastic tape. 250/13" reel. Plastic tape: 44 mm wide, 0.50 mm thick, 32 mm pocket spacing, 9.4 mm pocket depth. Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).

- Inductance measured on an Agilent/HP 4284 at 800 kHz, 0.8 Vrms, 0 Adc, with primary windings connected in parallel.
- Leakage inductance is for the primary windings connected in parallel, measured at 800 kHz, 0.8 Vrms, 0 Adc with secondary windings shorted.
- Primary DCR is for the primary windings connected in parallel.
- Volt-time product is based on primary windings connected in parallel.
- 500 Vrms, one minute isolation (hipot) measured between primary and secondary.
- Electrical specifications at 25°C.

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



Connect pin 2 and 3,
4 and 5 on PC board

Pin 10 is for mounting stability



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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.

Technical drawing of the YA9215-AL Coilcraft inductor, showing dimensions in inches and millimeters.

Top View:

- Overall width: $\frac{0.820}{20.83}$ max
- Overall length: $\frac{0.920}{23.37}$ max
- Pin 1 location: Indicated by a dot and the text "Dot indicates pin 1".
- Internal code: "XXXXY"
- Part number: "YA9215-AL"
- Manufacturer: "Coilcraft"
- Pin numbers 7 through 11 are indicated on the right side.

Side View:

- Minimum height: $\frac{0.009}{0.229}$ min
- Maximum height: $\frac{0.352}{8.94}$
- Flange thickness: $\frac{0.050}{1.27}$
- Mounting hole diameter: $\frac{0.080}{2.03}$
- Surface finish symbol: $0.004 / 0.10$

End View:

- Pin 2 diameter: $\frac{0.400}{10.16}$
- Pin 3 diameter: $\frac{0.180}{4.57}$
- Pin 4 diameter: $\frac{0.080}{2.03}$
- Pin 5 diameter: $\frac{0.080}{2.03}$
- Pin 8 diameter: $\frac{0.110}{2.79}$
- Pin 9 diameter: $\frac{0.250}{6.35}$
- Pin 10 diameter: $\frac{0.250}{6.35}$
- Pin 11 diameter: $\frac{0.250}{6.35}$
- Pin 12 diameter: $\frac{0.250}{6.35}$
- Pin 13 diameter: $\frac{0.250}{6.35}$
- Pin 14 diameter: $\frac{0.250}{6.35}$
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- Pin 130 diameter: $\frac{0.25$