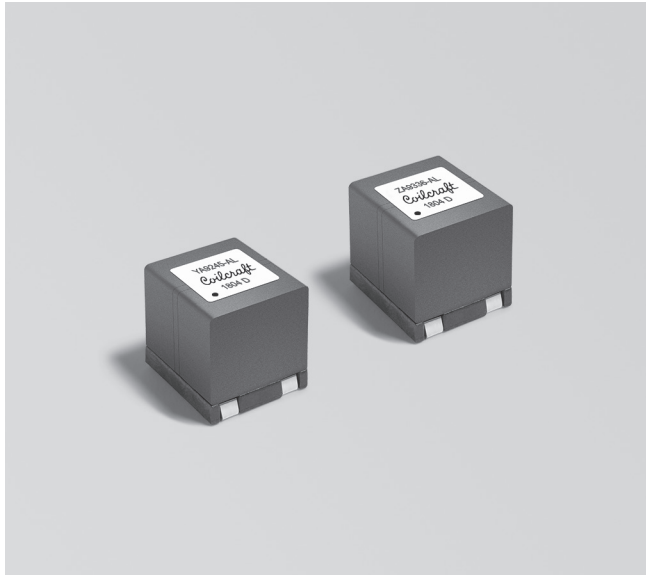


**NEW!**

# Dual Inductor for Class-D

## YA9245-AL ZA9336-AL



- Dual inductor for use in Class-D output filters
- A single shielded package contains both coils
- Very low magnetic coupling
- Designed for low distortion and the best sound quality
- AEC-Q200 Grade 3 qualified (–40°C to +85°C ambient)

**Core material** Ferrite

**Terminations** RoHS compliant tin-silver (96.5/3.5) over copper.

**Weight** 4.6 – 4.86 g

**Ambient temperature** –40°C to +125°C with Irms current

**Maximum part temperature** +165°C (ambient + temp rise)

**Storage temperature** Component: –40°C to +165°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)

**Failures in Time (FIT) / Mean Time Between Failures (MTBF)**

38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

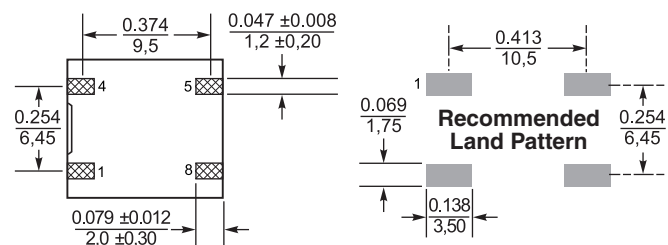
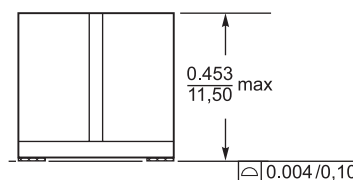
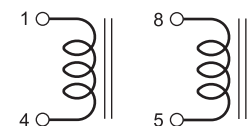
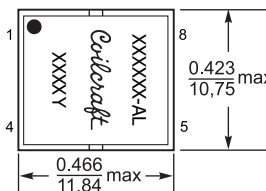
**Packaging** 250/13" reel Plastic tape: 24 mm wide, 0.5 mm thick, 20 mm pocket spacing, 11.6 mm pocket depth

**PCB washing** Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787 PCB Washing.pdf](#).

Part number <sup>1</sup>	Inductance <sup>2</sup> ±10% (µH)	DCR max <sup>3</sup> (Ohms)	SRF typ <sup>4</sup> (MHz)	Isat (A) <sup>5</sup>			Irms (A) <sup>6</sup>	
				10% drop	20% drop	30% drop	20°C rise	40°C rise
YA9245-ALD	9.0	0.022	40	7.9	8.3	8.8	4.0	5.6
ZA9336-ALD	21.0	0.035	20	4.9	5.2	5.4	2.5	3.5

- Packaging:** D = 13" machine-ready reel. EIA-481 embossed plastic tape. Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).
- Inductance measured at 100 kHz, 1.0 Vrms, 0 Adc using an Agilent/HP 4284A impedance analyzer.
- DCR is for each winding, measured on a micro-ohmmeter.
- SRF measured using Agilent/HP 8753D network analyzer.
- DC current (typical) at which the inductance drops the specified amount from its value without current.
- Current applied to both windings at the same time that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings.
- Electrical specifications at 25°C.

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



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



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