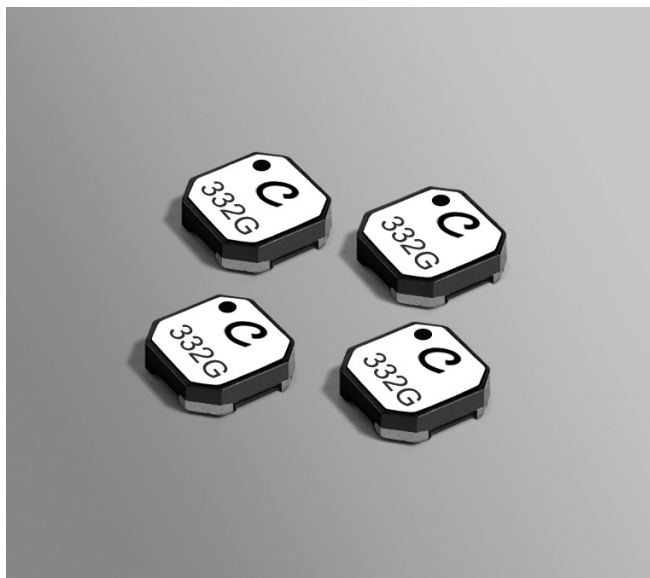


**NEW!**

# Coupled Inductor - NA5880-AE



- Developed for use with Fairchild Semiconductor FAN8831 Sinusoidal Piezoelectric Actuator Driver
- 1 : 4 turns ratio; Output voltages up to 300 V

**Core material** Ferrite

**Environmental** RoHS compliant, halogen free

**Terminations** RoHS compliant matte tin over silver-palladium-platinum-glass frit.

**Weight** 64 mg

**Ambient temperature** -40°C to +85°C

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

**Storage temperature** Component: -40°C to +125°C.

Tape and reel packaging: -40°C to +80°C

**Winding to winding isolation (Hipot)** 300 V

**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** 1000/7" reel; 3500/13" reel Plastic tape: 12 mm wide, 0.25 mm thick, 8 mm pocket spacing, 1.32 mm pocket depth

**Recommended pick and place nozzle** OD: 4 mm; ID: ≤ 2 mm

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

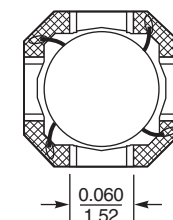
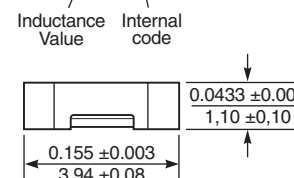
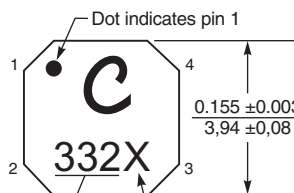
Part number <sup>1</sup>	Inductance <sup>2</sup> ±20% (µH)	Turns ratio	DCR max (Ohms)		SRF typ <sup>3</sup> (MHz)	Isat <sup>4</sup> (A)
			L1	L2		
NA5880-AE_	3.3	1 : 4	0.306	2.30	12	1.3

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

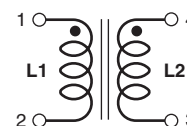
**NA5880-AEC**

- Packaging:**
- C** = 7" machine-ready reel. EIA-481 embossed plastic tape (1000 parts per full reel).
  - B** = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.
  - D** = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (3500 parts per full reel).

- Inductance is for the primary (L1), measured at 100 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4284A LCR meter or equivalent.
  - SRF measured using an Agilent/HP 4191A or equivalent.
  - DC current applied to L1, at which the inductance drops 10% from its value without current.
  - Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



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



**Recommended Land Pattern**

