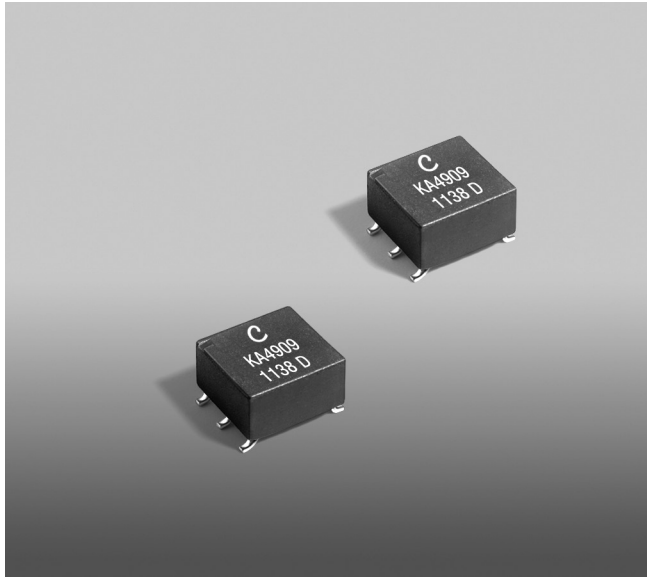


**NEW!**

# Bias Injection Choke – KA4909-AL



Developed for use with Texas Instruments DS90UB901Q serializer and DS90UB902Q deserializer for Low-Voltage Differential Signaling (LVDS) applications.

This center tapped inductor provides over 1 kOhm impedance from 1 MHz – 800 MHz.

Can be used with additional 10 μH and 1 μH inductors to achieve even wider band differential signal rejection.

AEC-Q200 Grade 3 (–40°C to +85°C) qualified

**Core material** Ferrite

**Terminations** RoHS compliant tin-silver-copper over tin over nickel over phos bronze.

**Weight** 220 mg

**Ambient temperature** –40°C to +105°C

**Storage temperature** Component: –40°C to +105°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)**

60 per billion hours / 16,666,667 hours, calculated per Telcordia SR-332

**Packaging** 250/7" reel; 1000/13" reel Plastic tape: 16 mm wide, 0.35 mm thick, 12 mm pocket spacing, 5.0 mm pocket depth

**PCB washing** Tested with pure water or alcohol only. For other solvents, see Doc787\_PCB\_Washing.pdf

Part number <sup>1</sup>	Inductance <sup>2</sup> ±20% (μH)	DCR max <sup>3</sup> (Ohms)	Irms <sup>4</sup> (mA)
KA4909-AL_	165	0.46	650

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

**KA4909-ALC**

**Packaging:** **C** = 7" machine ready reel. EIA-481 embossed plastic tape, 250 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 C instead.

**D** = 13" machine ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (1000 parts per full reel).

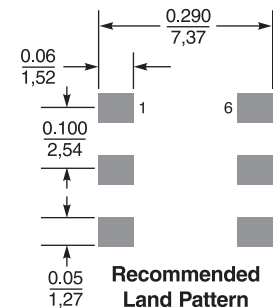
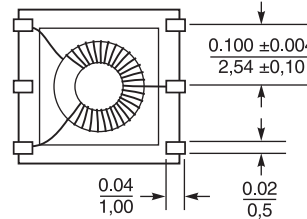
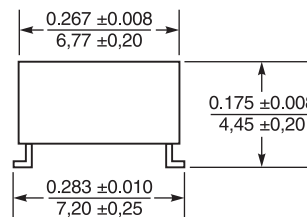
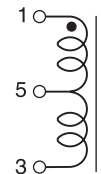
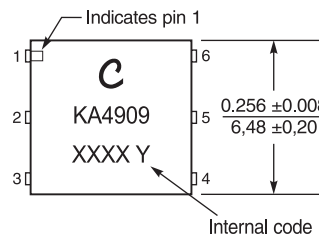
2. Inductance tested from pins 1 to 3 at 100 kHz, 0.007 Vrms, 0 Adc.

3. DCR is tested from pins 1 to 3

4. Current that causes a 20°C rise from 25°C ambient.

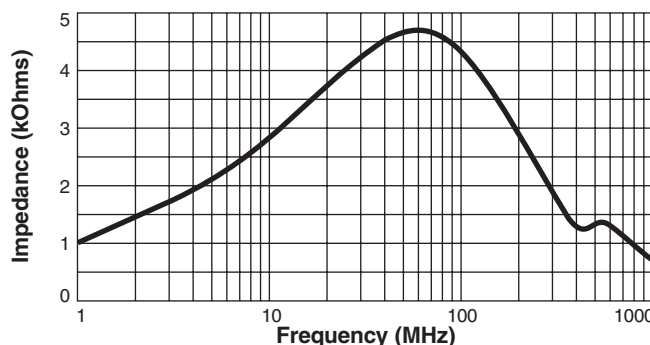
5. Electrical specifications at 25°C.

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



Dimensions are in inches / mm

## Impedance vs Frequency



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Document 992 Revised 10/28/14

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